SERVICE MANUAL

AE-2B CHASSIS

MODEL

COMMANDER DEST.

DEST. CHASSIS NO.

MODEL

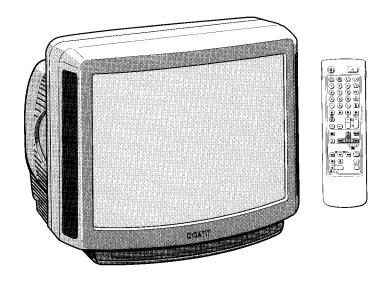
COMMANDER DEST.

CHASSIS NO.

KV-X2173B

RM-831

French SCC-G57P-A







ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
French	B/G/H, D/K L, I	GERMAN NICAM Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	French
Power Consumption	98W

SPECIFICATIONS

Picture Tube

Hi-Black Trinitron

Approx. 54.5 cm (21 inches) (Approx. 51 cm picture measured

diagonally) 100° -deflection

Input/Output Terminals

[REAR]

Ö-1 21-pin Euro connector (CENELEC standard)

- inputs for audio and video signals

inputs for RGB

- outputs of TV video and audio signals

→2/ 2 21-pin Euro connector

- inputs for audio and video signals

- inputs for S video

- outputs for audio and video signals (selectable)

→ Audio outputs (variable) - phono jacks

[FRONT]

€3Video input - phono jack

Audio inputs - phono jacks

■3S video input 4-pin DIN

Ω Headphone jacks : stereo minijack

Sound output 2 x 12W (RMS)

2 x 30W (Music)

Power requirements 220 - 240V

Dimensions Approx. 517x443x485 mm

Weight Approx. 28kg

Supplied accessories RM-831 Remote Commander (1)

IEC designation R6 battery (1)

Other features NICAM, FASTEXT.

[RM-831]

Remote control system infrared

infrared control

Power requirements

1.5V dc

1 battery IEC designation

R6 (size AA)

Dimensions

Approx. 65x225x21 mm (w/h/d)

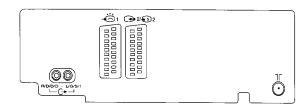
Weight

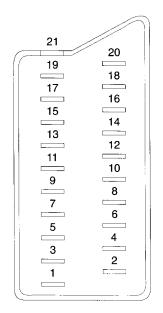
Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

Model name	KV-X2173B
Item	
Pal Comb	OFF
PIP	OFF
RGB Priority	ON
Woofer Box	OFF
Scart 1	ON
Scart 2	ON
Front in (3)	ON
Scart 4	OFF
Dyn. Convergence	OFF
Projector	OFF
AKB in 16:9 mode	ON
Norm B/G	ON
Norm I	ON
Norm D/K	ON
Norm AUS	OFF
Norm L	ON
Norm SAT	OFF
Norm M	OFF
Nicam Sys. L	ON
Language Preset	Francais

21 pin connector (७-1 ⊕ 2 / ⊕ 4)





Pin No.	1	2	4	Signal	Signal level
	_	_		Audio output B	Standard level : 0.5V rms
1	0	0	0	(right)	Output impedance :Less than 1kohm*
2		(Audio input B	Standard level : 0.5V rms
	0	0	0	(right)	Output impedance :More than 10kohm*
3		0		Audio output A	Standard level : 0.5V rms
				(left)	Output impedance :Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	C	0	Audio input A	Standard level : 0.5V rms
				(left)	Output impedance :More than 10kohm*
7	0	•	•	Blue input	0.7 ± 3dB, 75 ohms, positive
					High state (9.5 - 12V) : Part mode
8	0		lo	Function select	Low state (0 - 2V) : TV mode
"				(AV control)	Input impedance : More than 10k ohms
			<u> </u>		Input capacitance : Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground(blanking)	
	0	_	_	Red input	0.7 ± 3dB, 75 ohms, positive
15	_	0	0	(S signal) croma input	0.3 ± 3dB, 75 ohms, positive
16				Blanking input	High state (1 - 3V) Low state (0 - 0.4V)
	\subseteq	_		(Ys signal)	Input impedance : 75ohms
17	0	0		Ground(video output)	
-	-		-	Ground(video	
18	0	0	0	input)	
19	0	0	0	Video output	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
	0	_	<u> </u>	Video input	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
20	_	0	0	Video input Y (S signal)	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
21				Common ground	
	Ľ	Ľ	Ľ	(plug, sheild)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level	
1	Ground		
2	Ground		
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB	
4	C (S signal) input		

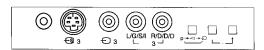


TABLE OF CONTENTS

Se	ection	<u>Title</u>	Page		Section	<u>Title</u>	Pag
1.	GEN	ERAL		5.	DIAG	RAMS	
		Overview	6		5-1.	Block Diagrams (1)	39
		Step 3 - Tuning in to TV stations	7			Block Diagrams (2)	
		Additional Presetting Functions	10			Block Diagrams (3)	
		Watching the TV	13			Block Diagrams (4)	
		Adjusting and Setting the TV Using				Block Diagrams (5)	
		the Menu	15			Block Diagrams (6)	
		Teletext	17		5-2.	Circuit Board Location	. 49
		Connecting and Operating optional			5-3.	Schematic Diagrams and	
		Equipment	20			Printed Wiring Boards	
_	DIC	ACCEMPLY				* H1 Board	. 50
2.	וסוט	ASSEMBLY				* H2 Board	
	2-1.	Rear Cover Removal	22			* F2 Board	
	2-2.	Chassis Assy Removal	22			* F1 Board	
	2-3.	Service Position	. 23			* J Board	
	2-4.	Extension Boards	23			* A Board	
	2-5.	M2 and A1 Board Removal	24			* M2 Board	
	2-6.	E2 Board Removal				* D Board	
	2-7.	J Board Removal	. 25			* A1 Board	
	2-8.	F Bracket Removal	25			* E2 Board	
	2-9-1.	Wire Dressing				* C Board	
	2-9-2.	Wire Dressing				* IF Board	
	2-10.	Picture Tube Removal	. 27		5-4.	Semiconductors	85
3.	SET	T-UP ADJUSTMENTS					
	3-1. 3-2.	Beam Landing Convergence		6.	EXP	LODED VIEWS	
	3-3.	Focus			6-1.	Chassis	
	3-4.	White Balance	. 31		6-2.	Picture Tube	88
4.	CIR	CUIT ADJUSTMENTS		7.	ELE	CTRICAL PARTS LIST	. 89
	4-1.	Electrical Adjustments	. 32				
	4-1. 4-2.	Volume Electrical Adjustments	-				
	4-2. 4-3.	Test Mode 2				ATTENTION	
	4-3. 4-4.	Error Message			APRE	S AVOIR DECONNECTE LE CAP DE L'ANODE	<u>:</u> ,
	4-5.	Error I ² C Bus Diagnosis System in AE-2B			COUR	T-CIRCUITER L'ANODE DU TUBE CATHODIQU	JΕ
		Chassis	. 38		ET C	ELUI DE L'ANODE DU CAP AU CHASSIS	
		CAUTION			META	LLIQUE DE L'APPAREIL, OU AU COUCHE DE CONF PEINTE SUR LE TUBE CATHODIQUE OU	J AU

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED A: ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTEMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE À SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

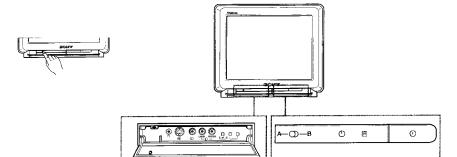
SECTION 1 GENERAL

Overview

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

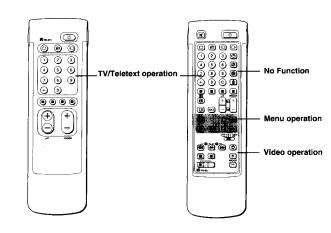
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



Symbol	Name	Refer to page
0	Main power switch	13
Q	Standby indicator	13
A-CO-B	Stereo A/B indicators	15
Ω	Headphones jack	20
- ⊛3, - € 3, - € 3	Input jacks (S-video/video/audio)	20
P-4	Function selector (Programme/volume/input)	13
_ +	Adjustment buttons for function selector	13

Remote Commander RM-831



Simple side

Full-Function side

TV/Tele	etext o	peration
---------	---------	----------

The SAT button does not operate with this TV.

Note

Symbol	Name	Refer to Pag
	Mute on/off button	14
Ф	Standby button	13
0	TV power on/TV mode selector button	13
⊜	Teletext button	14
⊕	Input mode selector	14
\ominus	Output mode selector	21
1,2,3,4,5,6, 7,8,9, and 0	Number buttons	13
-/	Double-digit entering button	13
С	Direct channel entering button	10
⊿ +/−	Volume control button	13
PROGR +/-	Programme selectors	13
•	Teletext page access buttons	17
•	Picture adjustment button	15
\	Sound adjustment button	15
•	On-screen display button	14
	Teletext hold button	17
0	Time display button	14
9920	Fastext buttons	17

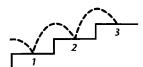
Menu operation

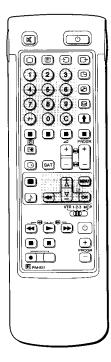
Symbol	Name	Refer to Page
MENU	Menu on / off button	7
△+/▽−	Select buttons	7
OK	OK (confirming) button	7
←	Back button	7

Video operation

video operation				
Symbol	Name	Refer to Page		
VTR1/2/3 MDP	Video equipment selector	22		
◄◄ ► ►► ■ II ● ७ PROGR +/-	Video equipment operation buttons	22		

Step 3 Tuning in to TV Stations





Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 60 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

Choose a language

Depress ① on the TV.

The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.

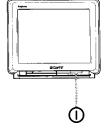
Press the MENU button. The LANGUAGE menu appears. (See Fig. 1)



Select the language you want with \triangle + or ∇ -, and then press OK.



Fig. 1.



To go back to main menu: Keep pressing ←.

To go back to the normal TV picture: Press MENU. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:

If you choose Demo on the main menu, you can see a sequential demonstration of the menu functions. Press MENU to stop the function.

Display the Menu

Press the - button. The main menu appears. (See Fig. 2)

Now, choose one of the methods described overleaf:

"Preset Channels Automatically"

"Preset Channels Manually".

It is recommended to choose

"Preset Channels Automatically".

Then the channels are automatically stored as follows;

Programme 1	-	BBC1
Programme 2	-	BBC2
Programme 3	-	ITV
Programme 4	_	CH4 or S4C







Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting:
Press ← on the Remote Commander.

Notes:

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 16.
- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 10.
- Programme names are automatically taken from Teletext if available. If not please refer to page 11 "Captioning a station name" for further information.

Use this method if there

are only a few channels

channels one by one.

various video input

If you have made a mistake:

Press ← to go back to the previous position.

To go back to main

sources.

menu

You may also allocate

programme numbers to

in your area to preset or if you want to preset

Openion of the property of

- 1 Select Preset with △+ or ∇- and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select Auto Programme with △+ or ▽- and press OK.

 The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK repeatedly until the first element of the "PROG" number is highlighted.
- Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽- or the number buttons (e.g. For "04", select "0" here) and press OK. The second element of "PROG" will be highlighted.
- 5 Select the second element of the double-digit number with △+ or ▽- or the number buttons (e.g. For "04", select "4" here) (See Fig. 5.) and press OK.
- 6 The automatic channel presetting starts. When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. (Press MENU to restore normal TV picture).



Fig. 3.

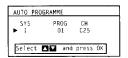


Fig. 4.



Fig. 5.

Preset channels manually

Select Preset with △+ or ▽- and press OK.

The PRESET menu appears. (See Fig. 6.)

2 Select Manual Programme Preset with \triangle + or ∇ - and press OK.

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

PRESET

Auto Programme
Manual Programme Preset
Programme Sorting
Parental Lock

Select IV and press OK

Fig. 6.

PROG 1 2 3 4 5	SYS I I I I I I	CH SEARCH LABEL AFT C21 (off) (on) C34 (off) (on) C33 (off) (on) C45 (off) (on) C44 (off) (on) C44 (off) (on) C54 (off) (on) C54 (off) (on)
8]	C30 (off) (on)
9	1	C38 (off) (on)
10	1	C59 (off) (on)

Fig. 7.

Keep pressing ←. To go back to the normal TV picture Press MENU.

- 3 Using △+ or ▽-, select the programme position (number button) to which you want to preset a channel, and press OK.
- **4** Keep pressing ∇- to select programme numbers higher than 10.

2 1 C (off) ---- (on)

Fig.8.

3 EXT AV1 ----

To tune in a channel by frequency:

After selecting F in step 6, enter three digits using the number buttons. Press OK.

Please refer to "Television Channel Number Guide" on page 24.

If you have made a

previous position.

Keep pressing ←

TV picture

Press MENU.

Press - to go back to the

To go back to main menu

To go back to the normal

mistake:

5 Select, if necessary, a video input source (EXT) with △+ or ▽-. Then press OK. The first element of the CH position will be highlighted. (See Fig. 8.)

5 Using △+ or ▽-, select C (to preset a regular channel), or F (to tune in by frequency) and press OK.
The first element of the "CH" number will be highlighted.
If you have selected EXT in step 5, select the video input source with △+ or ▽-. (See Fig. 9.)

There are two ways to preset channels. If you know the channel number, go to step "7-Manual",

OI

if you don't know the channel number, go to step "7- Search".

7 Manual

 Select the first element of the "CH" number with △+ / ▽- or the number buttons and press OK.
 The second element of the "CH" number will be highlighted.

-b Select the second element of the number with △+ / ▽- or the number buttons. The selected number appears. (See Fig. 10.)

Press OK
 The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)

- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.

7 Search

- Press OK repeatedly until the colour of the SEARCH position changes.
- -b Start searching for the channel with △+ (up) or ▽- (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- -c Press OK if you want to store this channel. If not, press △+ or ▽to continue channel searching.
- -d Press OK until the cursor appears by the next programme position.
- Repeat steps 3 to 7 to preset other channels.

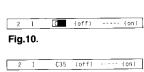


Fig.11.

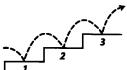
2 1 C35 (off) ---- (on)

2 I C50 (▲▼) ----- (on)

Fig.13.

9

Additional Presetting Functions

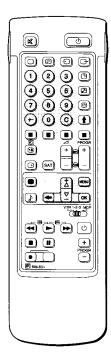


This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- · Locate the Menu operation buttons.

PROGRAMME SORTING



For higher programme positions:
The display scrolls automatically.

If you have made a mistake:
Press ← to go back to the previous position.

To go back to main menu:
Keep pressing ←.
To go back to the normal TV picture:
Press MENU.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- Select Preset with △+ or ∇- and press OK. The PRESET menu appears.
- 3 Select Programme Sorting with △+ or ▽- and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using △+ or ▽-, select the programme position you want to move to another programme position and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using △+ or ▽-, select the programme position to which you want to move the selected programme and press OK. Now the two programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.

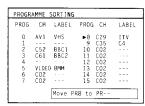


Fig. 14.

0 AV1 VHS 8 C29 CTV Fig. 15.

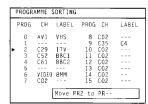


Fig. 16.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. The indication "C" appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



MANUAL PROGRAMME PRESET

1

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- Press MENU to display the main menu.
- 2 Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and press OK.
 The MANUAL PROGRAMME PRESET menu appears. (See Fig.17.)
- 4 Using △+ or ▽-, select the programme position which you want to skip and press OK. The "SYSTEM" position changes colour.
- Fress △+ or ▽- until --- appears in the SYSTEM position. (See Fig. 18.)
- 6 Press OK. (See Fig. 19.) When you select programmes using the PROGR +/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.



PROGR

PROG SYS	CH SEARCH LABEL AFT
- 1 I	C21 (off) (on)
2 i	C24 (off) (on)
3 I	C25 (off) (on)
4 1	(27 (off) (on)
4 I 5 I 6 I	C28 (off) (on)
6 i	C22 (off) (on)
- j - j	C26 (off) (on)
8 I	C25 (off) (on)
9 I 9 I	C23 (off) (on)
10 Î	C29 (nff) (on)

Fig. 17.

		 	 	_
		 	 	_
Fig.	18.			

_				 	
	3				
•	4	1			

Fig. 19.

MANUAL PROGRAMME PRESET

If you have made a

Press ← to go back to

the previous position.

To go back to main

Keep pressing -.

To go back to the normal TV picture:

Press MENU.

mistake:

menu:

Captioning a Station Name

Programme names are automatically taken from Teletext if available. However you can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and press OK.
 - The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)
- 4 Using △+ or ▽-, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- 5 Select a letter or number with △+ or ▽- and press OK. The next element will be highlighted.
 Select other characters in the same way. If you want to leave an element blank, select and press OK. (See Fig. 21.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

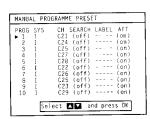


Fig. 20.

2 I	C25 (off)S	(on)

Fig. 21.

▶ 2	ī	C25 (off) SONY -	(on)

Fig. 22.

MANUAL PROGRAMME PRESET

Manual Fine-Tuning

Normally, the AFT(automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select Preset with △+ or ▽- and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with △+ or ▽- and press OK.

 The MANUAL PROGRAMME PRESET TOTAL PROGRAMME PROGRAMME PRESET TOTAL PROGRAMME P

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 23.)

- 4 Using △+ or ▽-, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
- Fine-tune the channel with △+ or ▽- so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 24.)
- 6 After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.

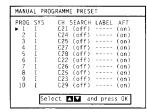


Fig. 23.

2	I	C35(off)	(-3)	
Fig.	24.			
≥ 3	I I	C40 (off) C45 (off)	(-3) (on)	

Fig. 25.

"ON" in step 5.

PARENTAL LOCK

(automatic fine tuning):

To reactivate AFT

beginning and select

Repeat from the

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select Preset with \triangle + or ∇ and press OK. The PRESET menu appears.
- 3 Select Parental Lock with △+ or ▽- and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- 4 Using \triangle + or ∇ -, select the programme position you want to block and press OK.

The CH and LABEL, of the selected programme number, change colour indicating that this programme is now blocked. (See Fig. 27.)

5 Repeat step 4 to block other programme positions.

PARENTAL LOCK PROG CH LABEL PROG CH LABEL 0 AVI VHS 8 C38 — 1 C25 B8C2 9 C39 — 2 C42 B8C1 10 C40 — 3 C26 C4 11 C41 — 4 C34 1TV 12 C42 — 5 C35 — 13 C43 — 6 C36 — 14 C44 — 7 C37 — 15 C45 — Select ▼▼ and press 0K

Fig. 26.

PROG CH	LABEL	PROG	CH	LABEL	
0 AV1	VHS				
1 C22	BBC2				
2 C42	BBC1				
▶ 3 C26	C4				

Fig. 27.

If you try to select a programme that has been blocked:

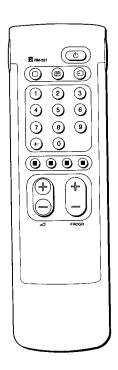
The message "LOCKED" appears on the blank TV screen.

Cancelling blocking

- On the PARENTAL LOCK menu, select the programme position you want to unblock with △+ or ▽−.
- 2 Press OK

The CH and LABEL change to normal colour indicating that the blocking has been cancelled.

Watching the TV



If no picture appears when you depress $\ensuremath{\mathbb{O}}$ on the TV

and if the standby indicator on the TV is lit, the TV is in standby mode. Press
or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress Oon the TV.

Switching off temporarily

Press \odot on the Remote Commander. The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press \bigcirc , PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress ① on the TV.

Selecting TV Programmes

Press PROGR +/- or press number buttons.

To select a double-digit number

Press -/- -, then the numbers. For example, if you want to choose 23, press -/- -, 2, and 3.

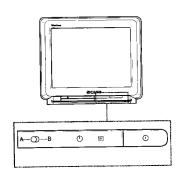
Adjusting the Volume

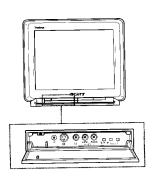
Press ∠ +/-.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press –/+ buttons to switch on the TV from the standby mode.
- Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET symbol → is displayed).





For details of the teletext operation, refer to page 17.

For details of the video input picture, refer to page 21.



To make the Programme Table disappear Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press
 to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.

 Press (PAGE +) or (PAGE -) for the next or preceeding page.
 To go back to the normal TV picture, press .

Watching a video input picture

Press To repeatedly until the desired video input appears. To go back to the normal TV picture, press .

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press 🕙 once to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press .

To resume normal sound, press & again.

Displaying the time

Press . This function is available only when teletext is broadcast.

To make the time display disappear, press (1) again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig.28)

Selecting of TV programmes

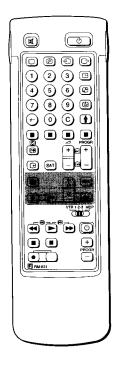
Press PROGR +/- or select the desired programme position using \triangle + or ∇ – and press OK.



Fig.28.

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL SOUND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones $(\widehat{\Omega})$.

or

Press MENU and select Picture Control or Sound Control, then press OK.

The PICTURE CONTROL or SOUND CONTROL menu

- appears. (See Fig. 29 or Fig. 30)

 Using △+ or ▽-, select the item you want to adjust and press OK.The selected item changes colour. (See Fig. 31)
- 3 Adjust the setting with △+ or ▽ and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 32) For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.



Fig. 29.



Fig. 30.



Fig. 32.

If you have made a mistake:

Press to go back to the previous position.

To go back to the main menu:

Keep pressing ←.
To go back to the normal TV picture:
Press MENU.

Note:

HUE is only available for NTSC colour system.

Note on LINE OUT:

The audio level and the dual sound mode output from the ⊕ jack on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.

When watching a video input source with stereo sound:

You can select DUAL SOUND to change the sound.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less ——I—— More
Brightness	Darker ——I—— Brighter
Colour	Less ——I—— More
Hue	Greenish ——I—— Reddish
Sharpness	Softer ——I—— Sharper
Reset	Resets picture to the factory preset levels.
Format	4:3: Normal 16:9: Wide screen effect

SOUND CONTROL	Effect
Volume	Less —I— More
Treble	Less —I— More
Bass	Less — More
Balance	More left — I— More right
Reset	Resets sound to the factory preset levels.
Loudness	off: Normal on: When listening to low volume sound.
Space	off: Normal on: Obtain acoustic sound effect.
Dual Sound	A: left channel B: right channel stereo mono The selected mode of the A-OD-B indicator on the TV lights up. (for NICAM broadcasts see next page)
Headphones:	
	Less — More
Ω Dual Sound	A : left channel B : right channel STEREO MONO

Selecting Nicam Broadcasts*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-O-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 15.

Service Being Broadcast	Action	Effect	Indicat the TV	ion on A-◯⊃-B
Stereo	Press	Stereo Nicam (Mono 2-Channel)	VIIV	XII/2
Press ∆+ or ∇– agai	∆+ or ∇− n to return to stereo Nica	mono am (mono 2-channel)		
Bilingual	press	Channel A Nicam	VIV	
	\triangle + or ∇ –	Channel B Nicam		2/12
		mono		
Press ∆+ or ∇– agai	n to return to channel A	Nicam		

^{*} Depending on availability of service.

PROGRAMME TABLE

To go back to the normal TV picture: Press MENU.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select Programme Table with △+ or ∇- and press OK.

The PROGRAMME TABLE menu appears. (See Fig. 33)

To scroll to higher programme numbers, press ∇-.

2 To select a programme using this menu select the programme number with △+ or ▽- and press OK.

The selected programme appears.



Fig. 33.

TIMER

To switch off the timer: Select "OFF" in step 3.

To check the remaining time:
Press ⊕.

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

1 From the main menu, select Timer with \triangle + or ∇ - and press OK.

The TIMER menu appears. (See Fig. 34.)

2 Press OK.

The time period option changes colour.

3 Select the time period with \triangle + or ∇ -. The time period (in minutes) changes as follows: $10\rightarrow20\rightarrow30\rightarrow40\rightarrow50\rightarrow60\rightarrow70\rightarrow80\rightarrow90$

↑_____OFF ____

4 After selecting the time period, press OK.

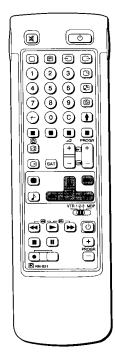
The cursor moves back to the left margin and the timer starts counting

One minute before the TV switches into standby mode, a message is displayed on the screen.



Fig. 34.

Teletext



Note:

Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander:

You can switch teletext on and off, operate Fastext, and directly select page numbers. TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- Select the TV channel which carries the teletext broadcast you want to watch.
- Press to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then reenter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. Using △+ or ▽-, select the desired page. "Page Catching" will be displayed on the information line. Press OK. The requested page will appear in a few seconds.

Press (a) to resume normal teletext reception.

Accessing next or preceding page

Press (PAGE +) or (PAGE -). The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press
 again to resume normal teletext reception.

Preventing a teletext page from being updated

- Press ⊕ (HOLD). The HOLD symbol "⊕" is displayed on the information line.
- Press
 to resume normal teletext reception.

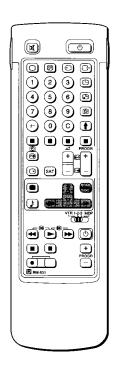
Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Note:

Fastext operation is only possible, if the TV station broadcasts Fastext signals.



Note:

Some of the features may not be available depending on the Teletext service.

Note on Subtitles:

If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

To cancel the request: Select "Subpage" and press OK.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- Press MENU. The menu will be superimposed on the teletext display. (See Fig. 35)
- 2 Using △+ or ▽-, select the teletext function you want and press OK. (See Fig. 36)

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 37)

Press \triangle + for Top to enlarge the upper half. For Bottom keep pressing ∇ -, to enlarge the lower half. Press OK for Full to resume the normal size.

Press 🗐 to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (see Fig. 38).

Press
to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 39)

Using \triangle + or ∇ -, select ON to reveal the information or OFF to conceal it again.

Press 🖹 to resume normal teletext reception.

TIME PAGE

This function is not available.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR+/– or the number buttons. (e.g. enter 0002 for the second page of a sequence).



Fig. 35.



Fig. 36.



Fig. 37.

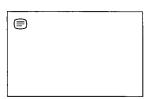


Fig. 38.

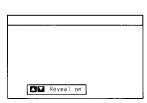


Fig. 39.

If two broadcasting stations use the same Teletext:

You can preset one bank to 2 different programme positions.

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- **2** Select PRESET USER PAGES with \triangle + or ∇ and press OK.
- 3 Select the desired bank with △+ or ∇- and press OK. The cursor will go to the first position (P1) of the preferred pages.
- Input the three digits of your first preferred page with the number buttons and press OK.
 The cursor will go to the second position.
- Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- **6** Select Allocate Bank with \triangle + or ∇ and press OK.
- 7 Select the programme position for which you have preset pages with △+ or ▽- and press OK. (See Fig. 40)
- 8 Select the desired bank with △+ or ▽- (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select MENU.
- 2 Select User Pages with △+ or ▽- and press OK. A table of the stored preferred pages will be displayed. (See Fig. 41)
- 3 Select the desired page with △+ or ▽- and press OK. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.

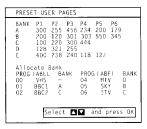


Fig.40.



Fig. 41.

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.

To connect a VTR using the if terminal: Connect the aerial output of the VTR to the aerial terminal if of the TV.

We recommend that you tune in the signal to programme number "0". For details see "Preset Channels Manually" on page 8.

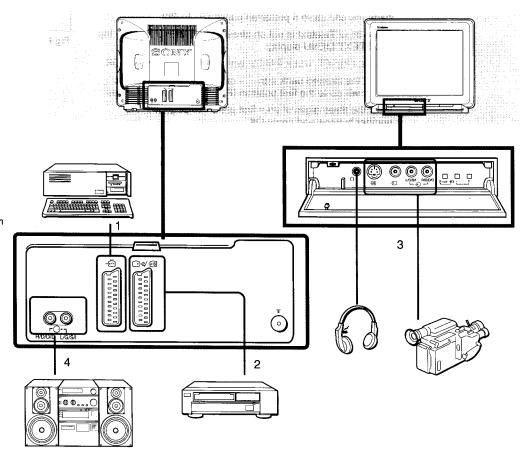
If the picture or the sound is distorted:
Move the VTR away from the TV.

S video input (Y/C input):

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VTR:
Connect only the white

→ jack to both the TV and VTR.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 No inputs	Audio signal (variable)

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

Select Video Connection with \triangle + or ∇ - and press OK. The VIDEO CONNECTION menu appears. (See Fig. 42)

You can see which source is selected for the TV and for the output. If you want to select the input and output on this menu, go on to the next step.

- Select TV Screen (input source for the TV screen) or output (output source) with \triangle + or ∇ – and press OK. One of the source items changes colour. (See Fig. 43)
- Select the desired source with \triangle + or ∇ -. (See Fig. 44) For details about each source, see the table on page 21.
- Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 45)

Repeat steps 2 to 4 to select the source for other inputs or outputs.

VIDEO CONNECTION TV SCREEN 1PLUS VHS 1 COMPU OUTPUT TV CAM 1 Select █☑ and press OK



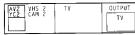
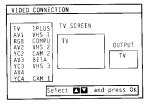


Fig. 44.



Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR

VTR 2: 8mm VTR

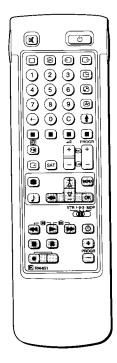
VTR 3: VHS VTR

MDP: Video disc player

Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

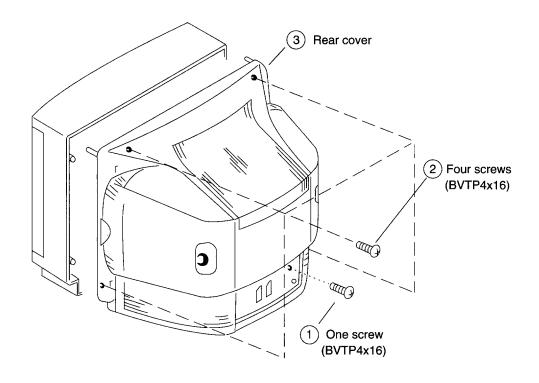
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



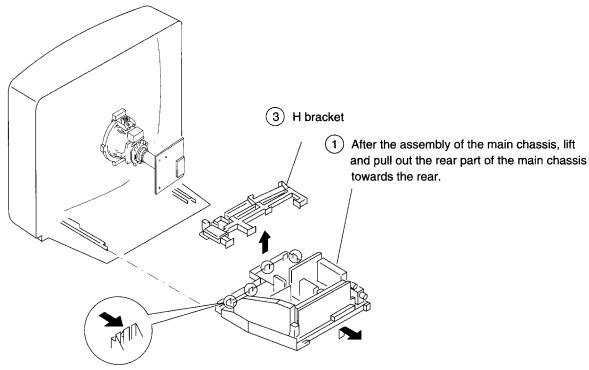
When recording When you use the (record) button, make sure to press this button and the one to the right of it simultaneously.

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

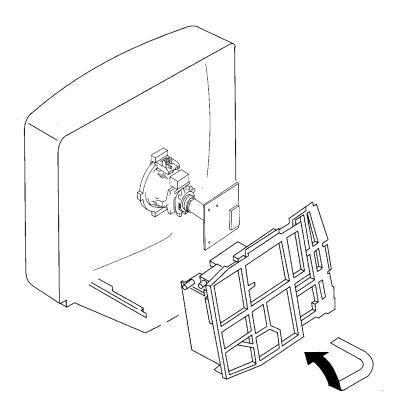


2-2. CHASSIS ASSY REMOVAL

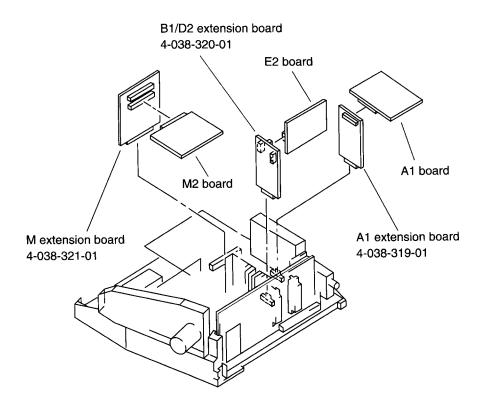


2 Push the four claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

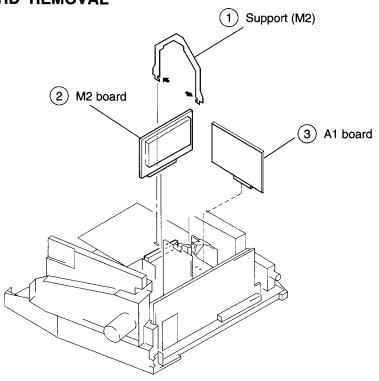
2-3. SERVICE POSITION



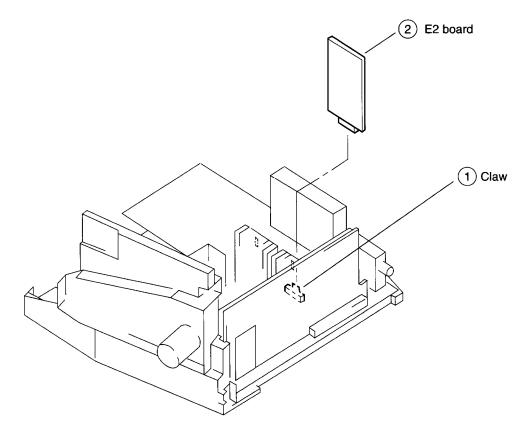
2-4. EXTENSION BOARDS



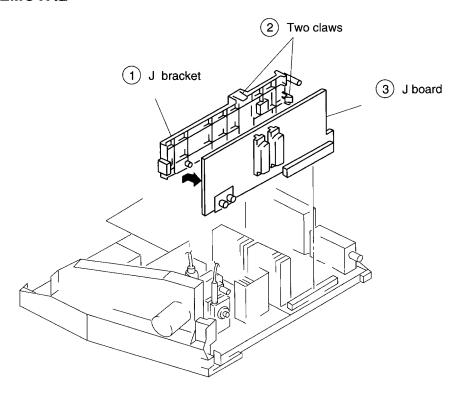
2-5. M2 AND A1 BOARD REMOVAL



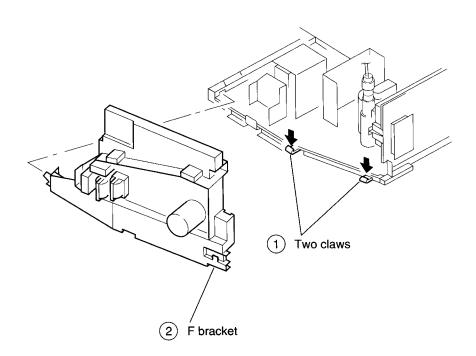
2-6. E2 BOARD REMOVAL



2-7. J BOARD REMOVAL

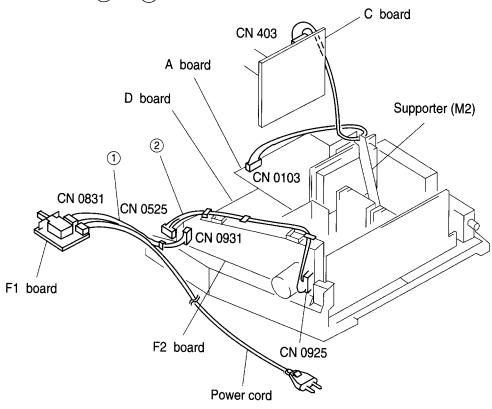


2-8. F BRACKET REMOVAL

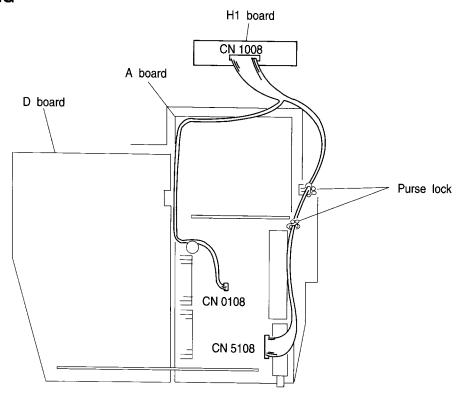


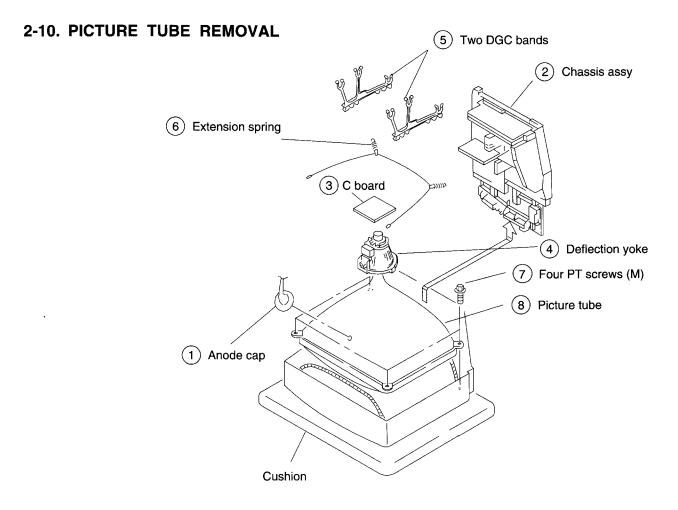
2-9-1. WIRE DRESSING

* Keep distance between 1 and 2



2-9-2. WIRE DRESSING

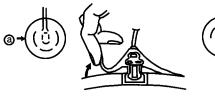




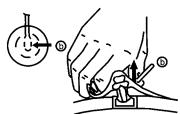
REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

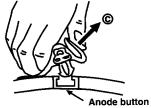
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow a



2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **(b)**



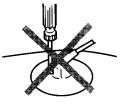
When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

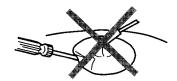
HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps!

A metal fitting called as shatter-hook terminal is built into the rubber.

3 Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or damage the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
 - CONTRASTcontrol 80% (or Normal by

☼ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

commander)

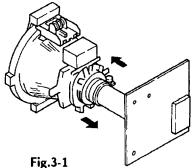
Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

Demagnetize with a degausser

- 1. Input a raster signal with the pattern generator. CONTRAST normal **BRIGHTNESS**
- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1-3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and blue and confirm the condition.
- 6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mount-
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)



- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

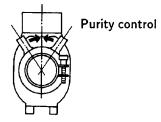


Fig.3-2

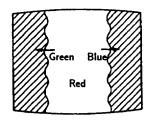
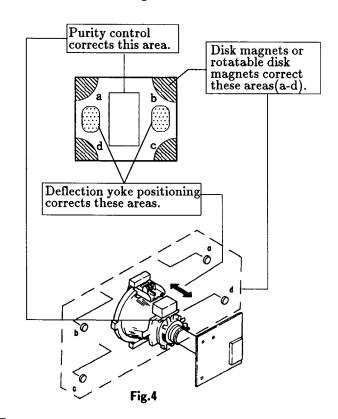


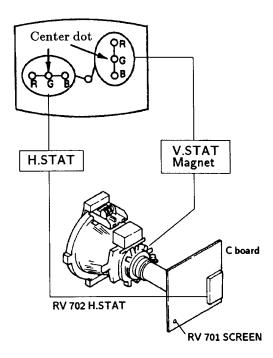
Fig.3-3



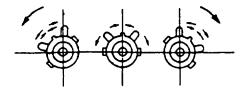
3-2. CONVERGENCE

Preparation:

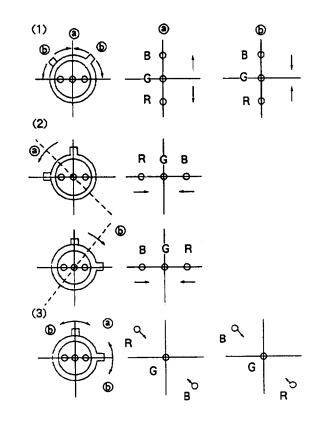
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

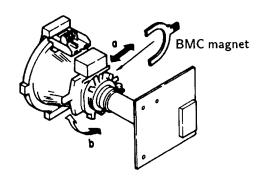


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

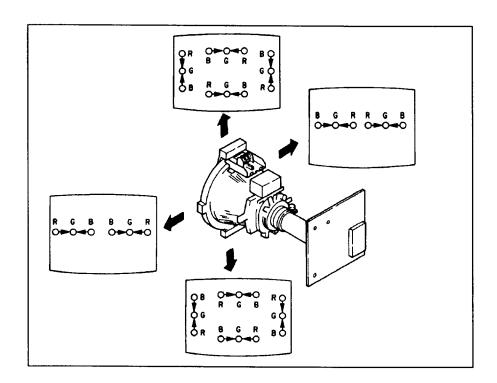


(2) Dynamic Convergence Adjustment

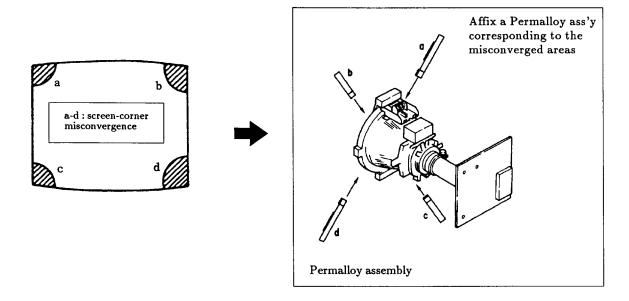
Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergenceas shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.

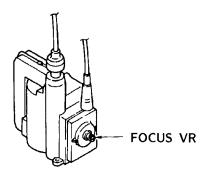


(3) Screen-corner Convergence



3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.



3-4. WHITE BALANCE

Screen G2 Setting

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
- While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

- 1. Receive all-white signal.
- Enter into service mode. (Refer to the section 4
 "Electrical Adjustment" to how to enter service
 mode.)
- 3. Select CXA 1587 on menu.

09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

- 4. Set picture to MAX.
- 5. Adjust G-DRIVE B-DRIVE with 🗓, 💆 buttons so that the white balance becomes optimum.
- 6. Press OK button to write the data for each item.
- 7. Set picture to MIN.
- 8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R
 -MANUAL CUT OFF, G-MANUAL CUT OFF and
 B-MANUAL CUT OFF with buttons so
 that the white balance becomes optimum.
- 9. Press OK button to write the data for each item.

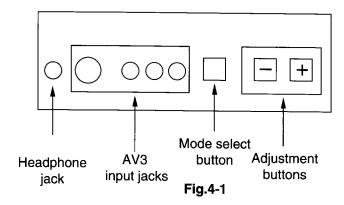
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

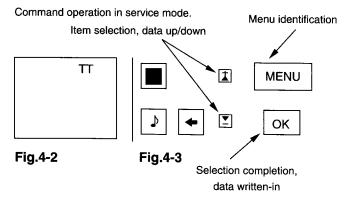
Service adjustment to this model can be performed with the supplied remote commander RM-831

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.



2. "TT" will appear at the upper right corner of the screen.



3. Press the MENU button on the remote commander to obtain the menu on the screen.

MAIN MENU
Programme Table
Video Connection
Picture Control
Sound Control
Timer
Preset
Language
> DEMO
Select <> and press OK

Fig.4-4

- 4. Press the ▲ and ▼ buttons on the remote commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of fig. 4-5 will appear on the screen. Select the DEVICE corresponding to the adjustment item from the table on the next page.

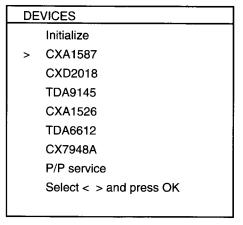


Fig. 4-5

7. If adjustment item is CXA1587, press the button and move > to CXA1587.

▼

CXA1587

Item No	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

- 8. Press **OK** button to get the next selection menu.
- 9. Press <u>■</u> button and move > to the adjustment item and press <u>OK</u> button.
- 10. Press ★ and ▼ buttons to change the data in order to comply with each standard.
- 11. Press **OK** button to write data.
- 12. Turn off the power to quit service mode when adjustments are completed.

01 02 03	PICTURE	53
03		
	COLOR	31
	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
	G-MANUAL CUT OFF	ADJ.
19 20	B-MANUAL CUT OFF	ADJ. ADJ.
21	GAMMA LEVEL	8
22	DC TRANSFER RATIO	3
23	DYNAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	TRAP	OFF
30	H SHIFT	36
31	DA TEST	ON
32	PRE/OVER	12
33	SUB FOCUS	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1 WHT	OFF
39	AGING 2 BLK	ON
40	AKB OFF	ON
41	INHIBIT RGB	ON
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE OFF	OFF
46	V EXTENSION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC	OFF
50	REF. POSITION	0

Item No	Adjustment item.	Data Amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	12
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.

Typical On Screen Display based values when receiving PAL Phillips pattern.

TDA6612	ADJ
Stereo-Separation	(31)

Should be adjusted twice, once for 4:3 and once for 16:9 mode.

Y FILTER ADJUSTMENT

- 1. Input a PAL RED pattern.
- 2. Connect an oscilloscope to pin ① of CN0403 (R OUT) on C board.
- 3. Enter into service mode and press 3,8.
- 4. Adjust data by \triangle or ∇ to minimize the chroma element at CN0403 pin (1).

SUB BRIGHTNESS ADJUSTMENT

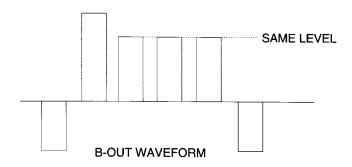
- 1. Input a Phillips pattern.
- 2. Enter into service mode and press 23.
- 3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a Black Background.
- 2. Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Connect oscilloscope to pin ① of CN0403 (R OUT) and adjust data to obtain 2.5Vp-p.

SUB COLOR ADJUSTMENT

- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to pin (3) of CN0403 (B OUT) on the C board.
- 3. Enter into service mode and press 22 of CXA1587, 8 SUB COLOR.
- Adjust data so that the right sides of the waveform are set to the same level.



STEREO-SEPARATION ADJUSTMENT

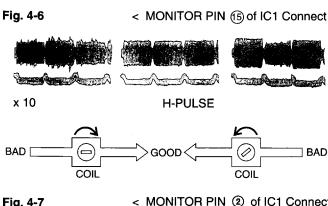
- 1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
- 2. Enter into service mode and press 19.
- 3. Adjust data so that sound is not detected in the Right-ch and the Left-ch.

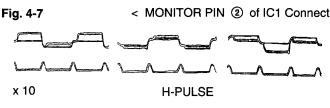
DRIVE AND CUT-OFF

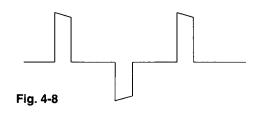
See direct test mode list attached and refer to sub brightness or such for adjustment method.

BELL FILTER ADJUSTMENT L3, L2

- 1. Input a Phillips signal.
- 2. Connect an oscilloscope to pin (5) of IC1 on the E2 board.
- 3. Adjust L3 (Bell Filter) to obtain a flat chroma/smooth signal see (Fig 4-6).
- 4. Connect an oscilloscope to pin ② of IC1 on the E2 board.
- 5. Adjust L2 (B-Y) to obtain symmetrical transient between $(R-Y) \rightarrow (B-Y)$ and $(B-Y) \rightarrow (R-Y)$ see (Fig 4-7).
- 6. Connect oscilloscope to pin **⑤** of CN2.
- Confirm ID flip-flop output signal is as indicated in (Fig 4-8).





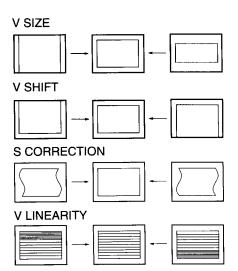


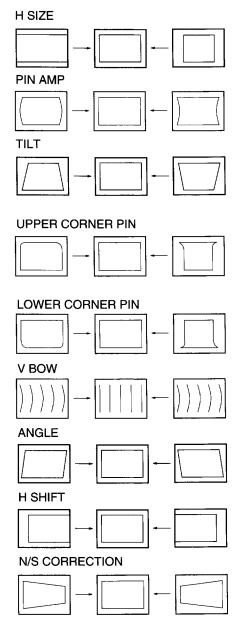
DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD2018.
- 2. Select and adjust each item in order to obtain the optimum image.

CXD2018

Item No	Adjustment item.	Data Amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	12
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.





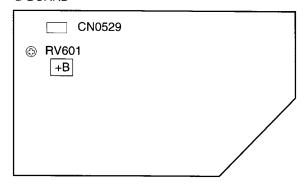
3. Press OK button to write data.

If the menu display prevents accurate adjustment, press to clear, to resume, press to clear, to resume, press to clear.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

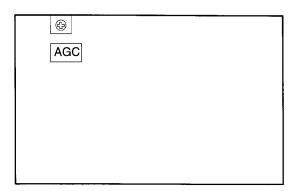
+B (+135V) ADJUSTMENT (RV601)

D BOARD



- 1. Switch on the power to the TV set.
- 2. Connect a digital multi-meter to pin ① of CN0529 on D board.
- 3. Adjust RV601 on D board to $+135V \pm 0.5V$.

AGC ADJUSTMENT (IF BLOCK)



- 1. Receive an off-air signal.
- 2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

4-3. TEST MODE 2:

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

	a State Tarak Manda O aff
00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ-Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13	Display of Software Version and TV set configeration
14	Adjustment of N/S Correction
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Level for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA1587 (Only available in Prog 99)
42	Default setting of CXA2018 (Only available in Prog 99)
43	Default setting of CXA1526 (Only available in Prog 99)
44	(all Port High) Not yet
45	(all Port High) Not yet
46	IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter
47-48	dummy
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ-Controller. (Not the channel data)

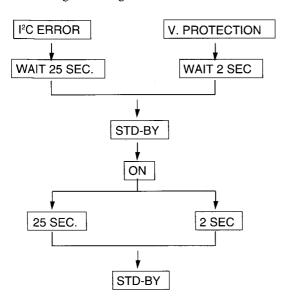
Note: For No 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched ON and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by the Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnostic system operates as follows.

 When the microprocessor is unable to receive an acknowledgement back from the device, the LED starts flashing according to the table below.



In the case of more than one error in parallel, the blinking error shows max priority according to the error number (e.g. error 2 and error 5 appear together, then LED,s show error 2).

ERROR TABLE

IC TYPE	FUNCTION
II C BUS	SDA low
X24C16	EPROM
TDA9145	Colour decoder
CXA1587	RGB/Jungle
TDA6612	Sound processor
CXD2018	V deflection
CXA1545	AV switch
SDA5248	Text
	V protection
	TDA9145 CXA1587 TDA6612 CXD2018 CXA1545

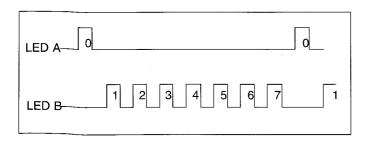
Stand By LED blinking

No 1K return

4-5. ERROR I²C BUS DIAGNOSTIC SYSTEM FOR AE2-B CHASSIS.

For all IC's used in the AE 2-B chassis which are necessary to obtain picture and sound there is an inbuilt I²C Bus diagnostic system.

In the case of no acknowledge bit, LED A and LED B start blinking as shown.



F 2

LED RESP

CN1413 (1/2)

AGC ATT (1)-

SCL (1)-

SDA (19-

V PULSE 13 SCL

FH (1)-

H SYNC (T)-

TXT BLK (1)

STBY ①

CN1426

V SIS (I) SDA

B/G, D/K (2)—

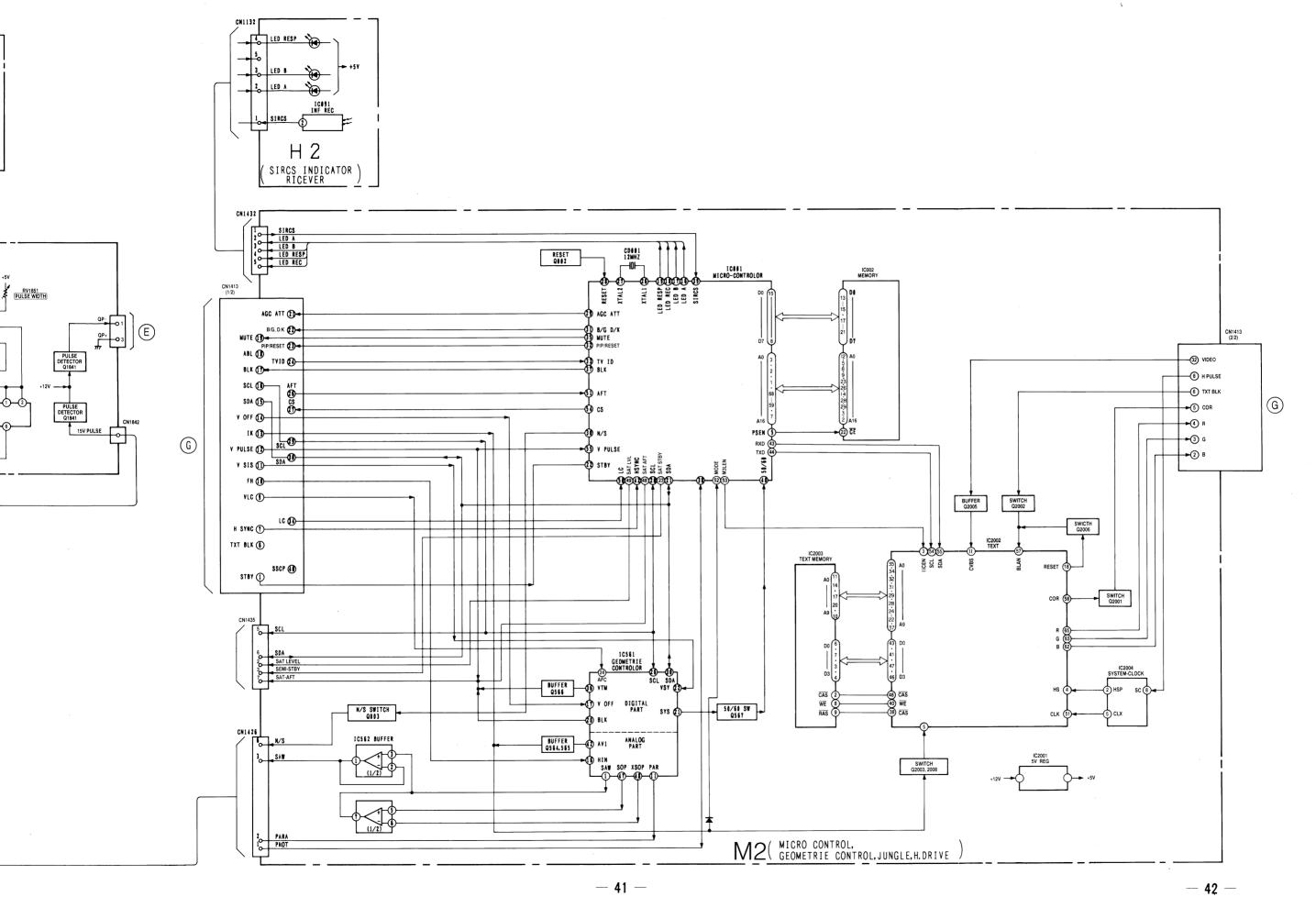
MUTE (1)—

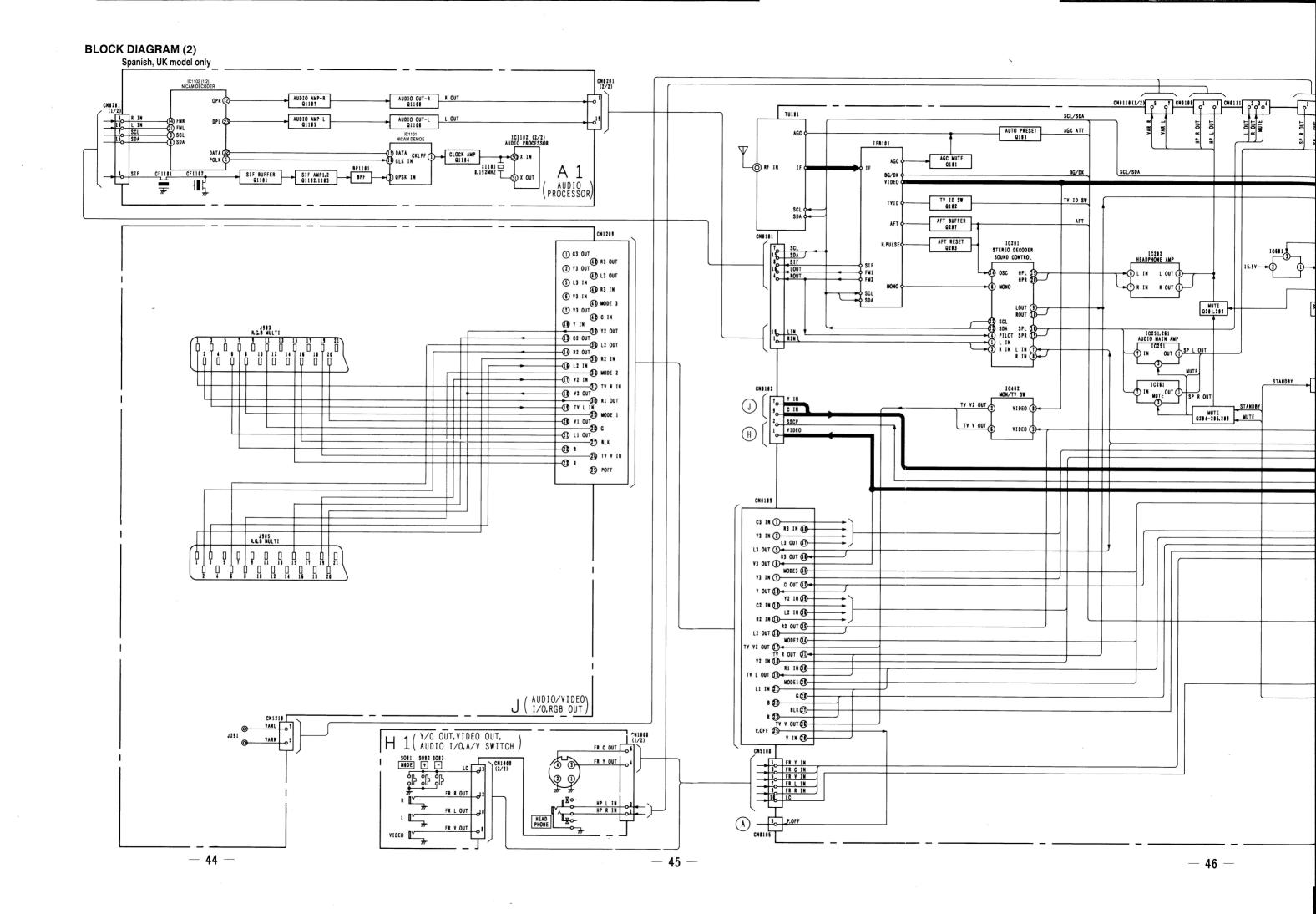
PIP/RESET (2)—

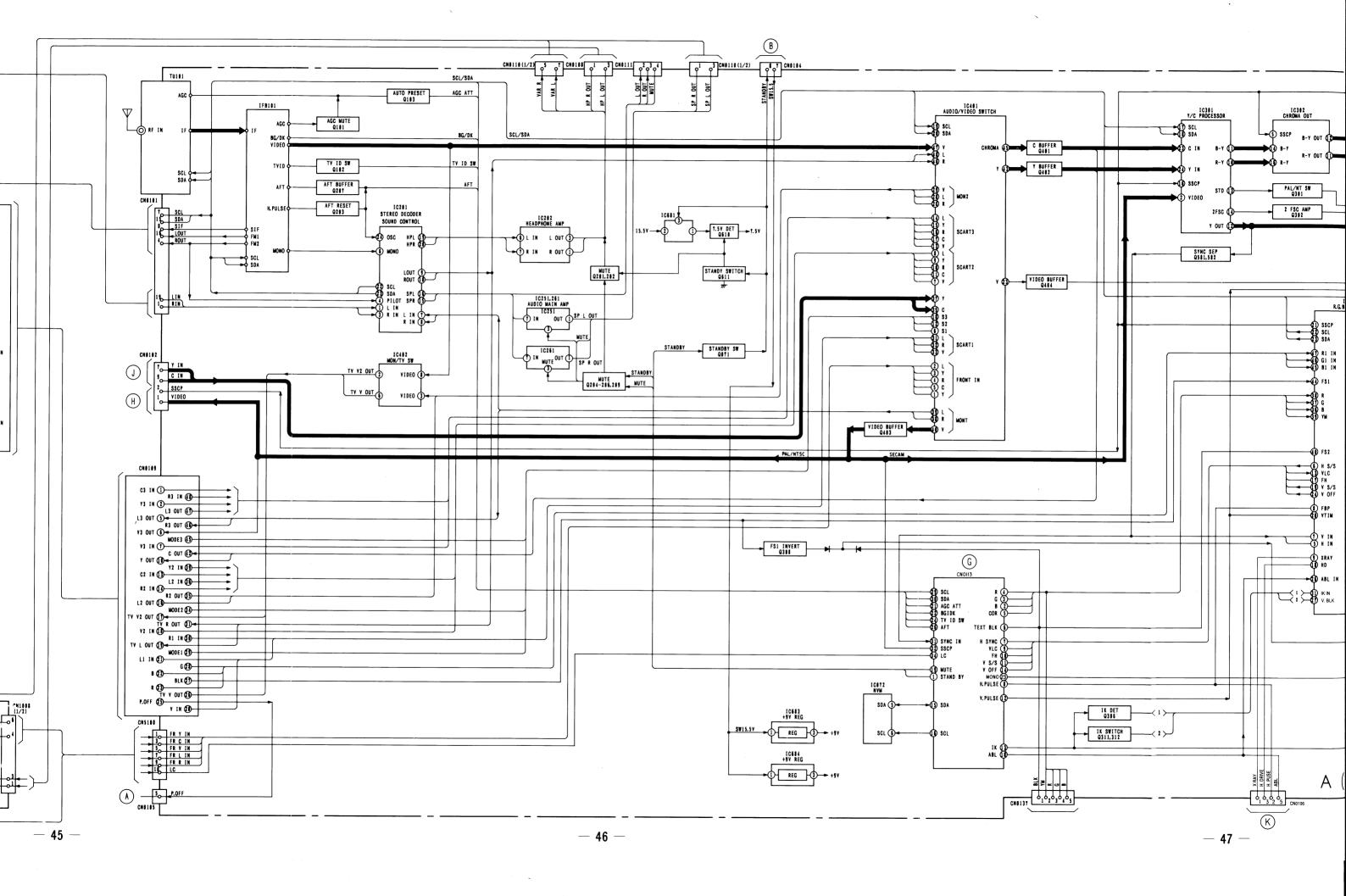
ABL (1)

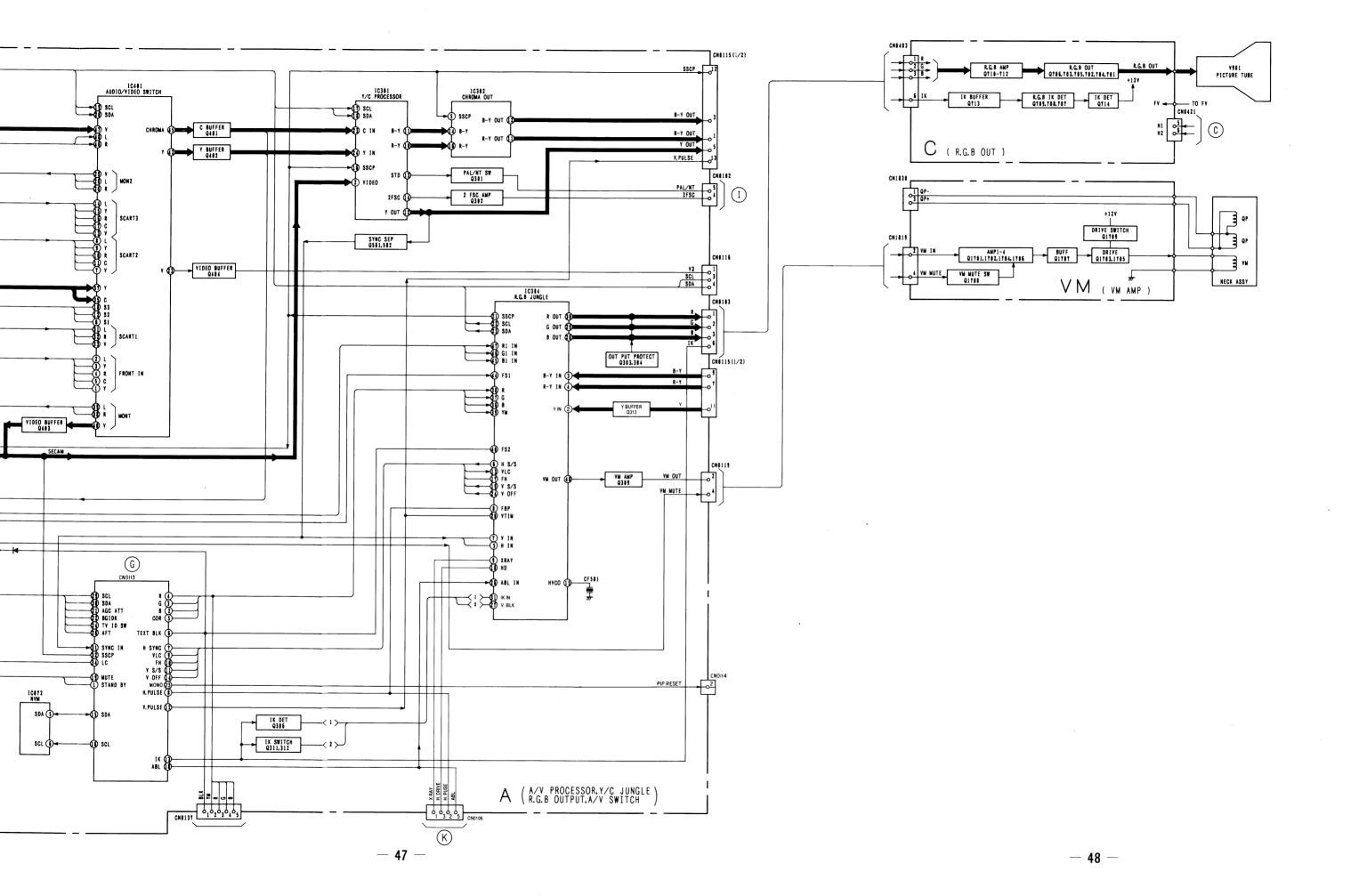
TVID (2)—

SIRCS INDICATOR)

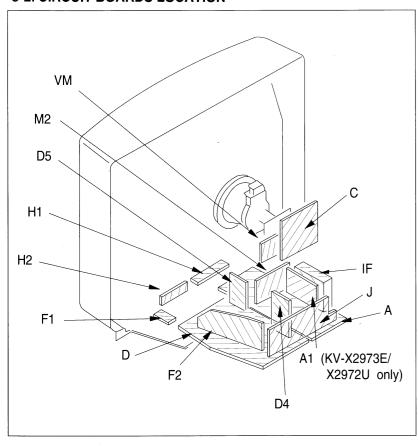








5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in $\mu \, \text{F}$ unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic.
- · Indication of resistance, which dose not have one for rating electrical power, is as follows.

Rating electrical power: 1/4W

• Chip resistor is in 1/10W.

Pitch : 5mm

- · All resistors are in ohms. k Ω = 1000 Ω, M Ω = 1000 K Ω
- Two-: nonflammable resistor.
- · + : fusible resistor.
- Δ : internal component.
- _____: panel designation or adjustment for repair.
- · All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- · All voltages are in V.
- Readings are taken with a $10M\,\Omega$ digital multimeter.
- · Readings are taken with a color-bar signal input.
- · Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- = = : B bus.
- signal path.(RF)
- |_ : earth ground
- · : earth chassis

Reference inf	ormation	
RESISTOR	RN RC FPRD FUSE	: METAL FILM : SOLID : NONFLAMMABLE CARBON : NONFLAMMABLE FUSIBLE
	RS RB RW **	: NONFLAMMABLE METAL OXIDE : NONFLAMMABLE CEMENT : NONFLAMMABLE WIREWOUND : ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR

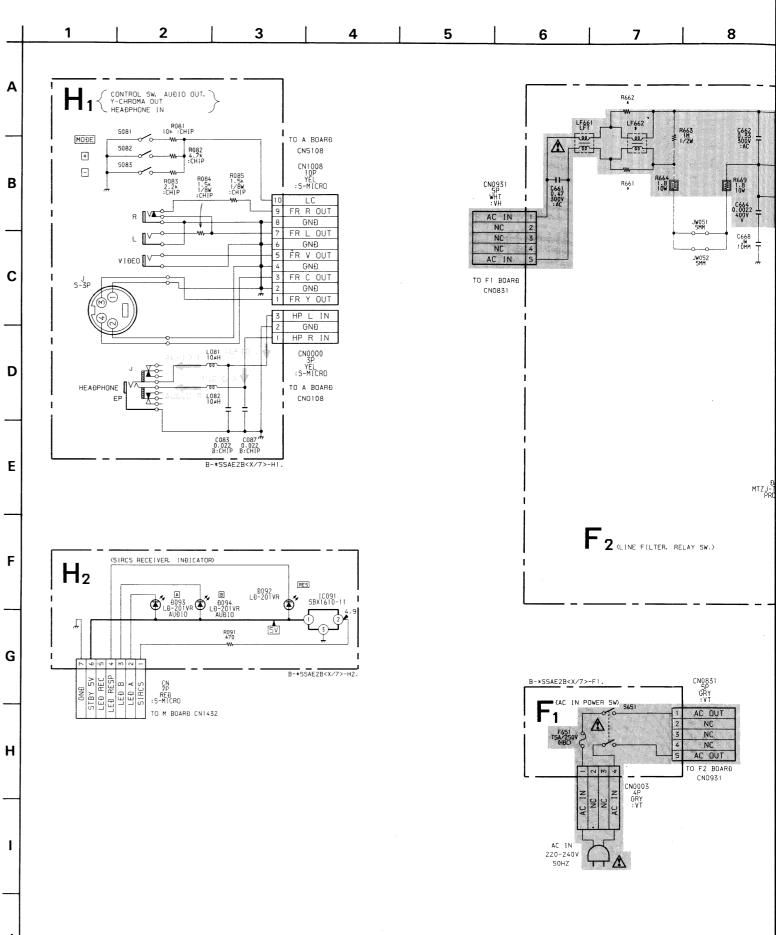
ALT

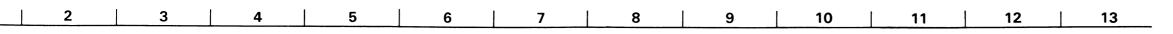
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

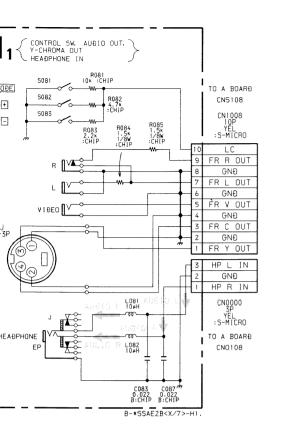
: HIGH TEMPERATURE

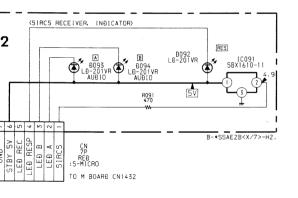
: HIGH RIPPLE

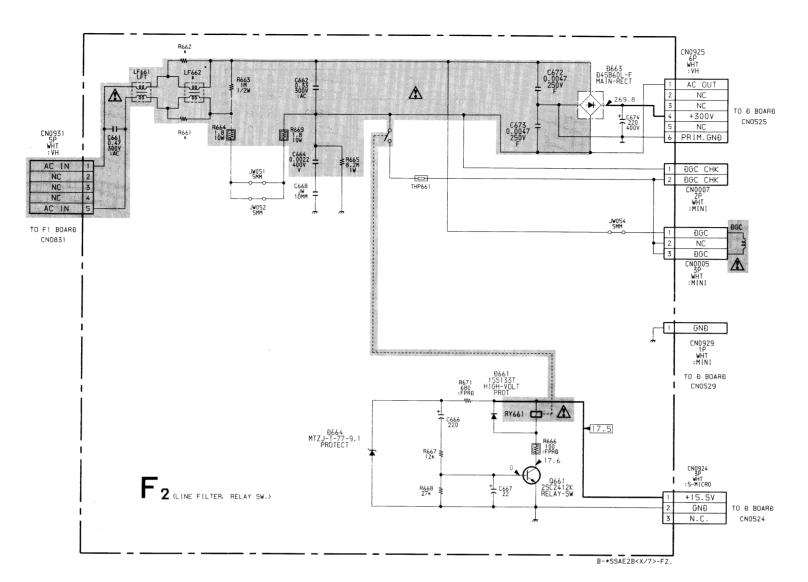
Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

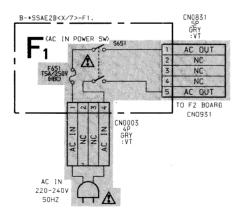






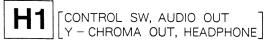




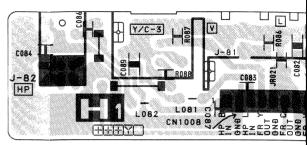


F2 BOARD * MARK

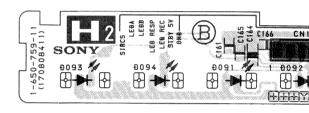
Model	KV-X2971A	KV-X2971B	KV-X2971D	KV-X2971K	KV-X2973E	KV-X2972U
R661	-	JW 10MM	· -	-	JW 10MM	JW 10MM
R662	-	JW 10MM	-	-	JW 10MM	JW 10MM
LF662	LFT	-	LFT	LFT	-	



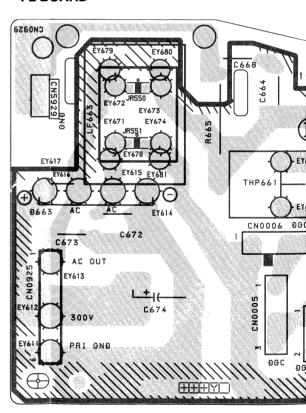
- H1 BOARD -



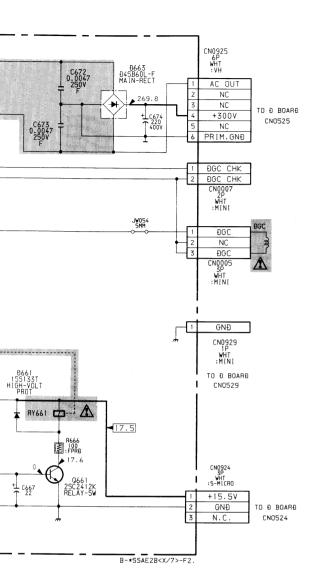
- H2 BOARD -



- F2 BOARD -



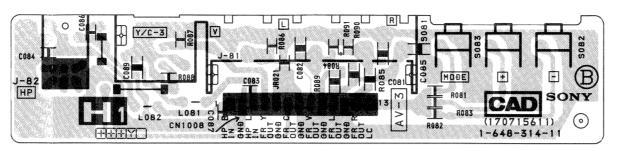




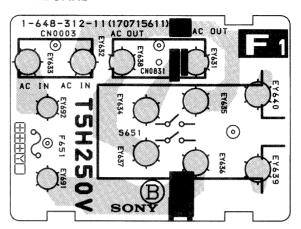
KV-X2971B	KV-X2971D	KV-X2971K	KV-X2973E	KV-X2972U
JW 10MM	-	-	JW 10MM	JW 10MM
JW 10MM	-	-	JW 10MM	JW 10MM
-	LFT	LFT	-	-



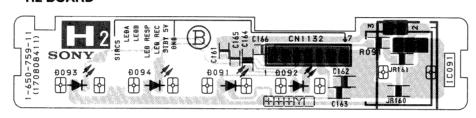
- H1 BOARD -



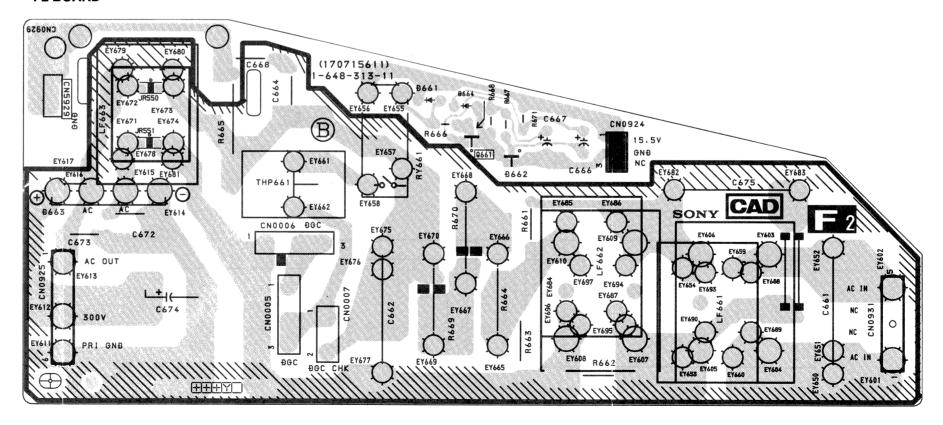
- F1 BOARD -



- H2 BOARD -

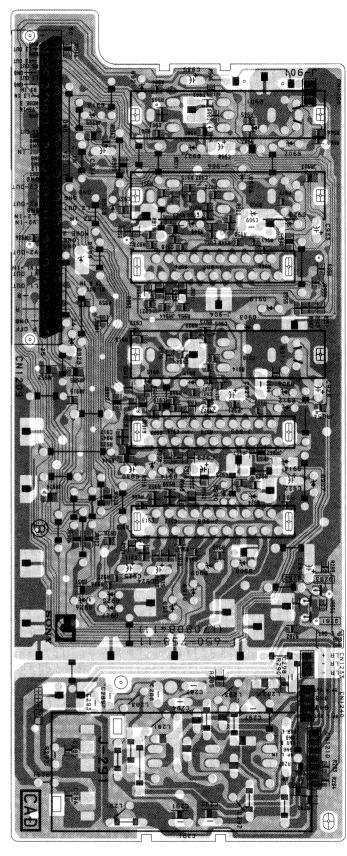


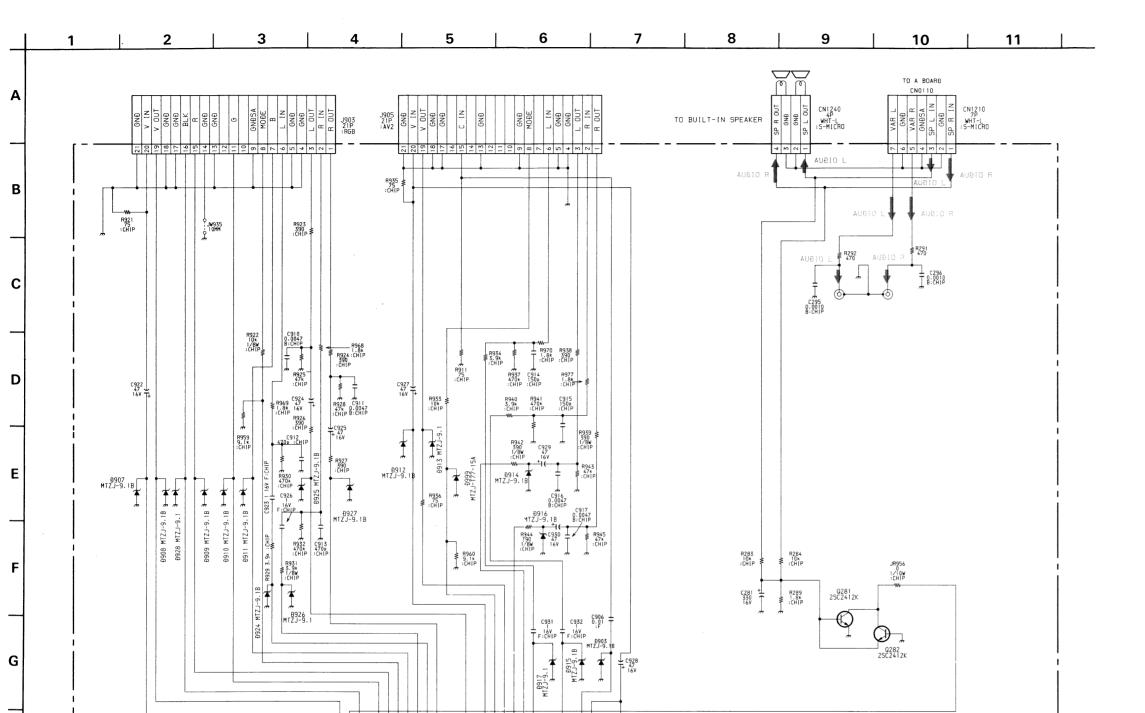
- F2 BOARD -











92 to 05 to 06 to

Note:

• Pattern from the side which enables seeing.

TUO-NI OIGUA TUO-NI OIGUA

Pattern of the rear side.

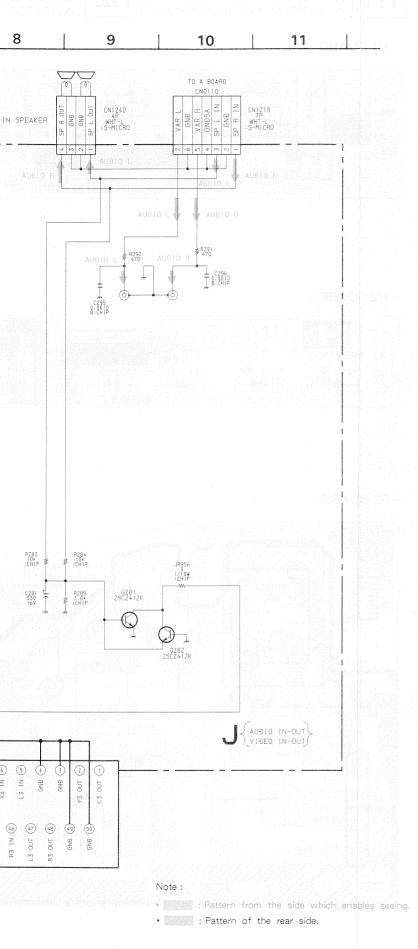
CN1209 50P WHT : BTOB-P

TO A BOARD CN0109

B-*SSAE2B<X/7>-J..



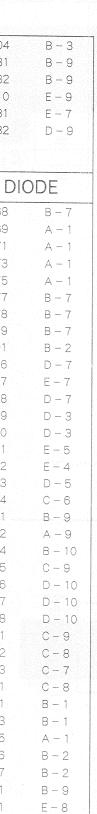
- J BOARD -



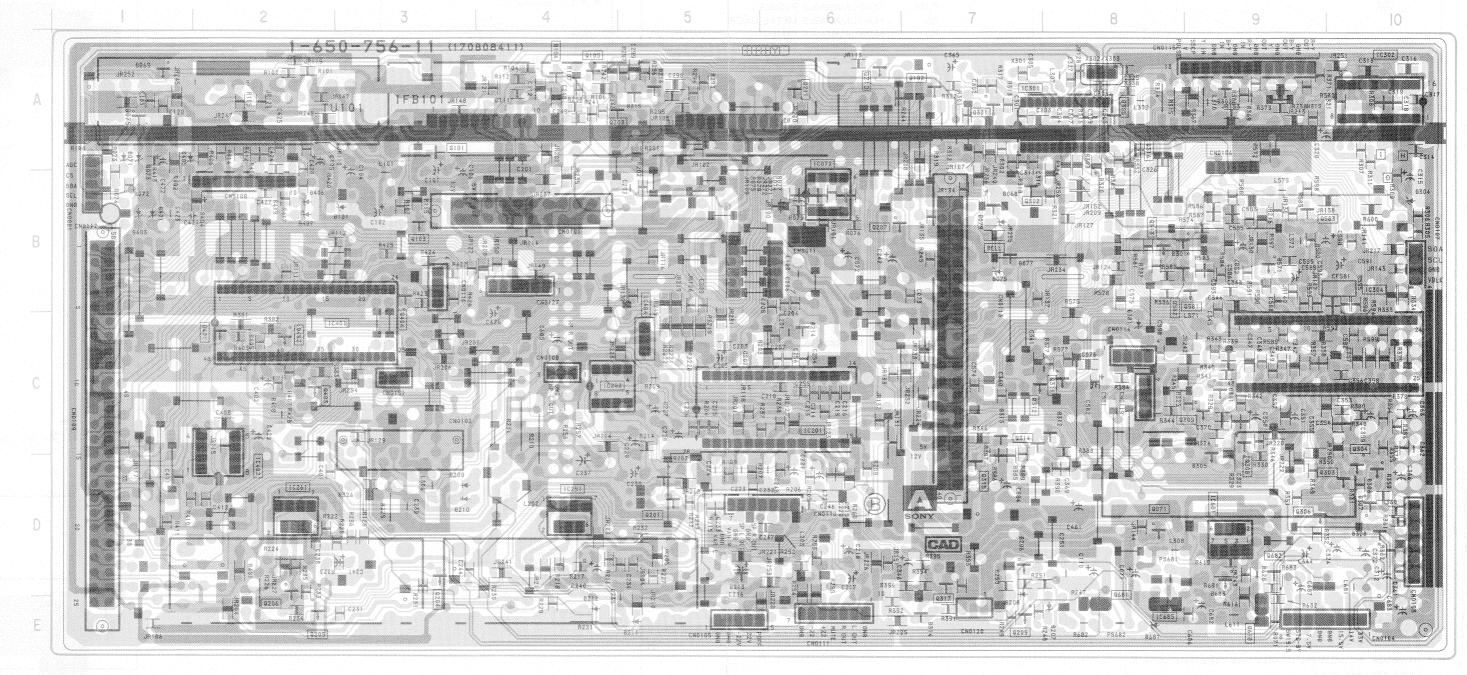
IC Q404 B - 3Q581 B - 9IC072 B - 6 Q582 B - 9 IC201 C - 6Q610 E - 9 IC202 C - 4Q681 E-7IC251 D - 4 Q682 D-9 IC261 D - 2 IC301 A - 8IC302 A - 10DIODE IC304 C - 10IC401 C - 2D068 B - 710402 D - 2D069 A - 1IC681 D - 9 D071 A - 1IC684 C - 4D073 A - 1IC685 E-8 D075 A - 1D077 B - 7D078 B - 7**TRANSISTOR** D079 B - 7Q071 D-8 D101 B - 2Q101 A - 3 D206 D-7Q102 A - 7D207 E-7Q103 A - 3D208 D - 7Q201 D - 5D209 D - 30202 D - 5D210 D - 3Q203 A - 4D211 E-5Q204 D - 3D212 E-4 0205 E - 2D213 D-5Q206 D - 2D214 C - 6Q207 B-6 B - 9 Q209. E-7 A - 9Q210 A - 6D304 B - 10Q301 A - 7D305 C - 9 Q302 D - 10 B - 7 D306 Q303 D - 10 D307 D - 10Q304 D-10 D308 D - 10Q305 A - 8D311 C - 9 0306 D - 10D312 C - 8Q308 C - 9 D313 C-7Q309 C - 9D381 C-8 Q311 C-8 D401 B - 1 Q312 C - 8D403 B - 1Q313 B - 8 D405 A - 1Q314 C - 7D406 B - 2Q315 D - 7 D407 B - 2 Q401 C - 2D571 B - 9 Q402 $C - ^{1}2$ D681 E-8 Q403 C - 2D683 D - 9

1-650-756-11

- A BOARD -

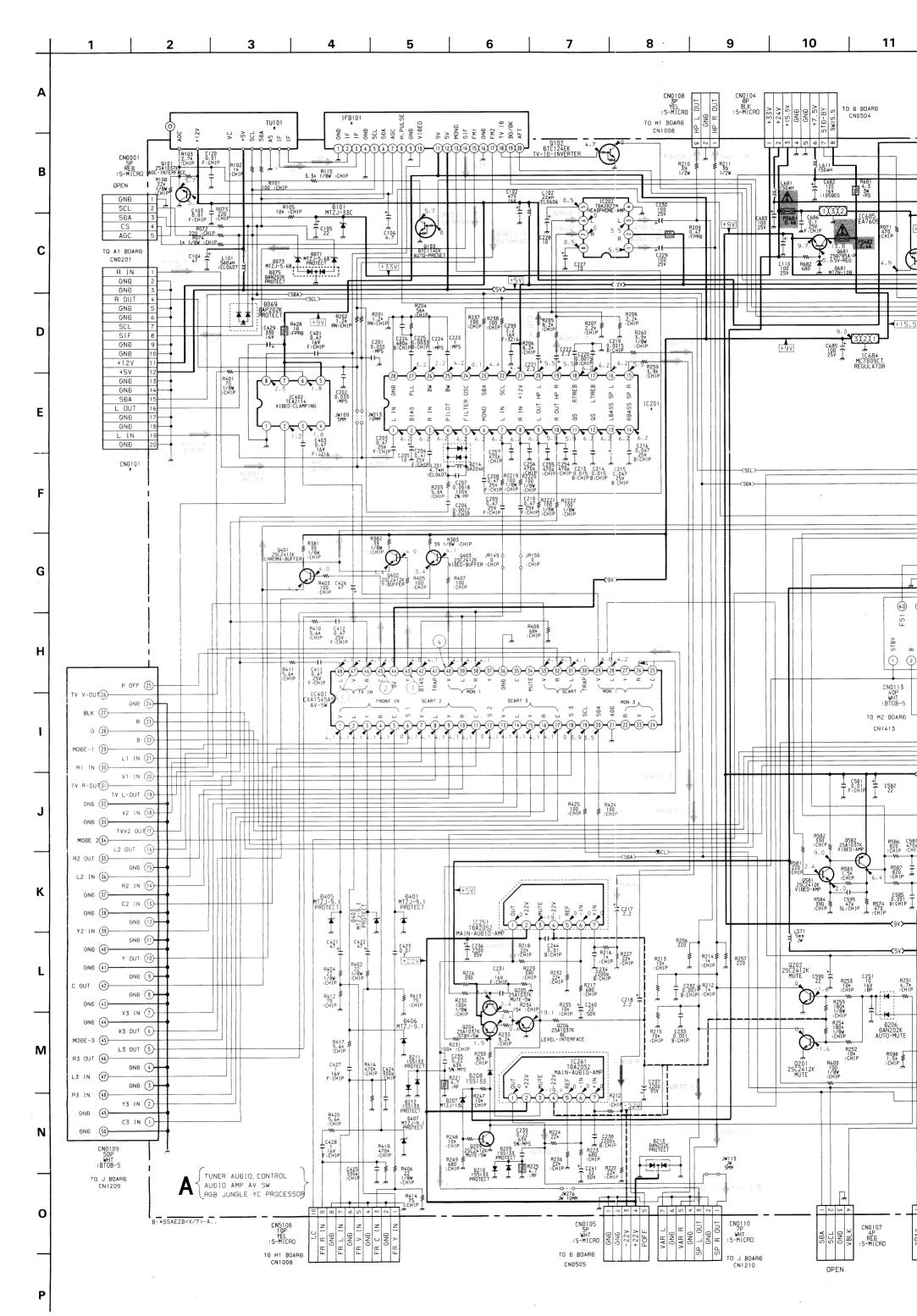


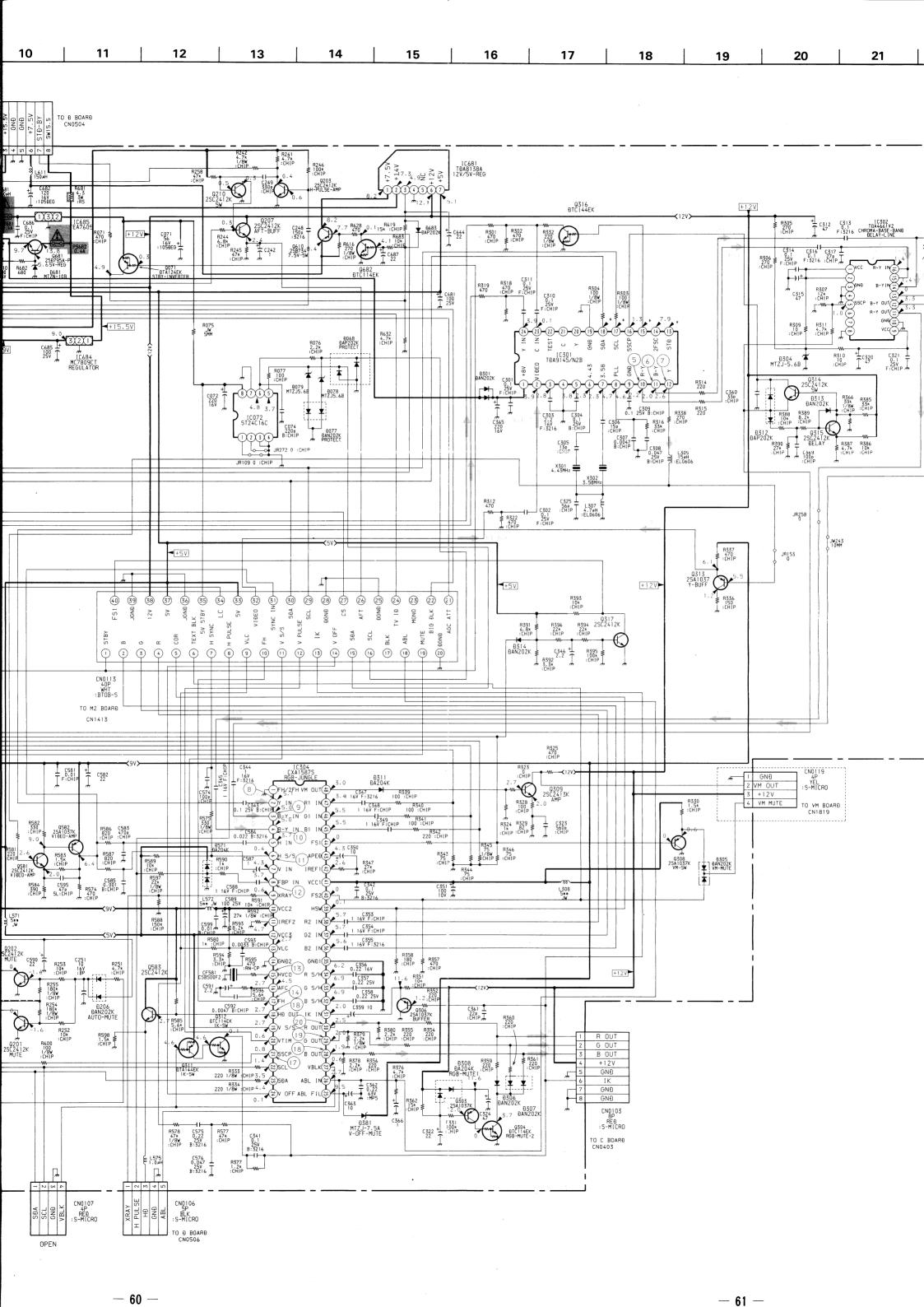
D-9



Note

- Pattern from the side which enables seeing
- : Pattern of the rear side.

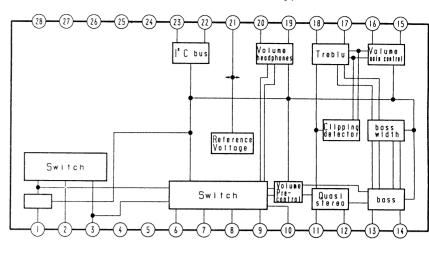




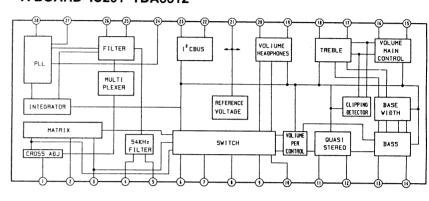
VEFORMS A BOARD

VEFORMS A BO	ARD			
PAL	1) SECAM	① NTSC	2 PAL	2 SECAM
1	1.2 Vp-p (H)	1.4 Vp-p (H)	1.9 Vp-p(H)	1.3 Vp-p (H)
NTSC	3 PAL	3 SECAM	3 NTSC	4 PAL
-0-1000 -0-100	Marray	Munnal	Juneary T	
3 Vp−p (H)	2.3 Vp-p(H)	2.2 Vp-p(H)	2.7 Vp-p(H)	2.3 Vp-p (H)
SECAM	4 NTSC	5 PAL	(5) SECAM	(5) NTSC
Vp-p (H)	2.8 Vp-p (H)	0.6 Vp-p (H)	1.2 Vp-p (H)	0.5 Vp-p(H)
PAL	6 SECAM	(6) NTSC	7) PAL, SECAM	(7) NTSC
3 Vbb (H)		дл дл дл дл 0.7 Vp-p(H)	1	0.6 Vp-p (H)
PAL	8 SECAM	8 NTSC	9 PAL, SECAM	9 NTSC
5 Vp-p (H)	0.4 Vp-p (H)	0.6 Vp-p (H)	<u>ДГДДГД</u> 1.5 Vp-p (Н)	дл дл дл дл 1.5 Vp-p (Н)
PAL, SECAM	(1) NTSC	(1)	12	13
【┌──┤ <u></u> ┌──┤ 2 Vp-p(H)	1.0 Vp-p (H)	5.2 Vp-p(H)	6.7 Vp-p(H)	0.12 Vp-p(540KHZ)
	(1)	(6)	(7)	(18)
7 Vp-p (H)	3.8 Vp-p (H)	5.0 Vp-p (H)	8.9 Vp-p (H)	Ն ՄՆՆՆ ՄՆՆՆ ԱՄՆՆ ԱՄՆՆ ԱՄՆՆ ԱՄՆՆ ԱՄՆՆ ԱՄ
	20			

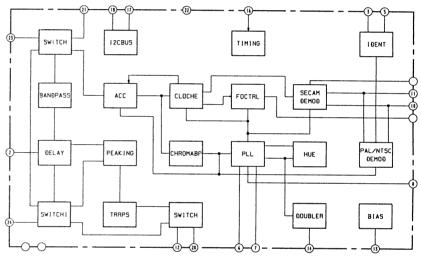
· A BOARD IC201 TDA6622 (UK Model only)



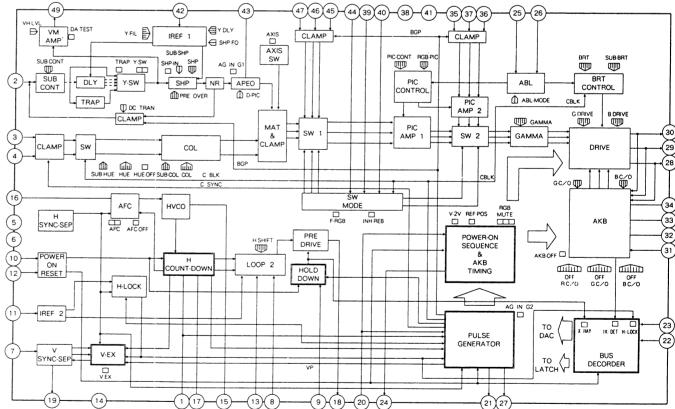
· A BOARD IC201 TDA6612



· A BOARD IC301 TDA9145



· A BOARD IC304 CXA1587S



b the voltage volue shown by mark 🔆 on the Schematic am, see the another list.

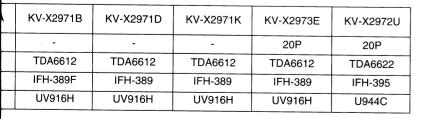
ᠾᡳᠾᡳᠾ

4.1 Vp-p (H)

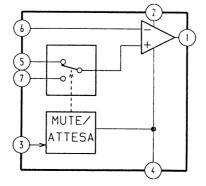
ARD

Vp-p(H)

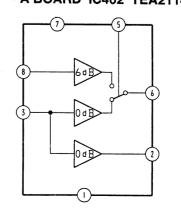
	PAL	SECAM	NTSC3.58	NTSC4.43
(3)	0.0	0.0	4.8	4.9
15)	0.0	5.0	5.0	0.0
1	4.7	4.2	3.6	4.1
18	4.8	4.4	4.6	4.8
B)	0.0	0.0	0.0	1.6
ô	5.5	5.5	5.5	0.1
B)	0.0	5.5	5.5	0.0
C)	0.0	0.0	0.0	1.6

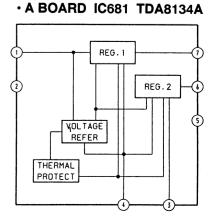


• A BOARD IC251/261 TDA2052

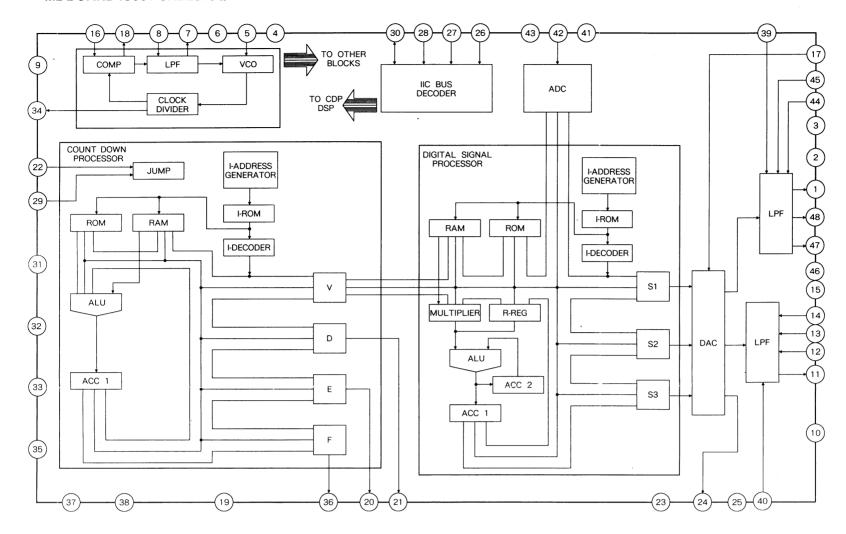


· A BOARD IC402 TEA2114





• M2 BOARD IC561 CXD2018Q



64

Κ

M

1

Α

В

С

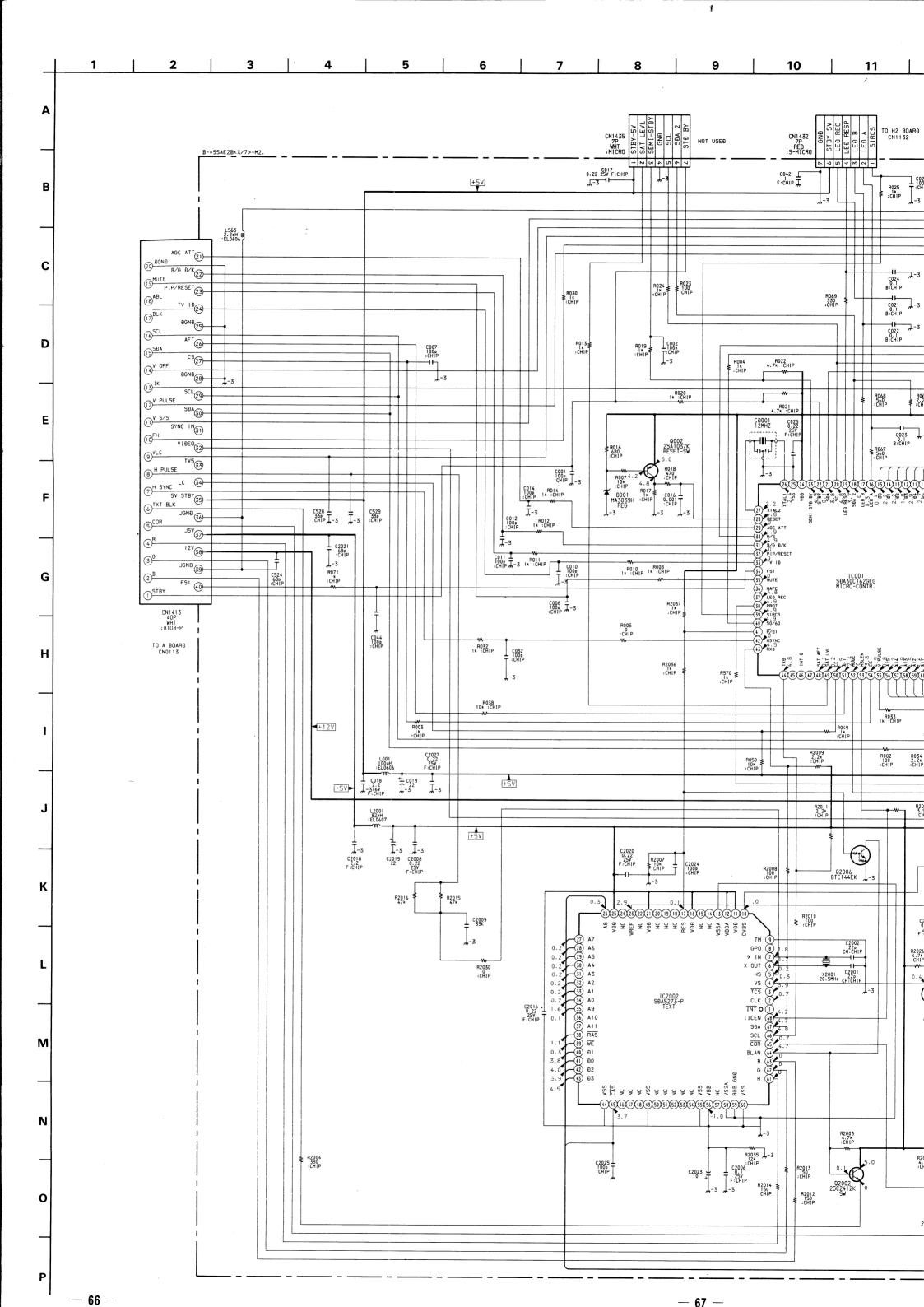
D

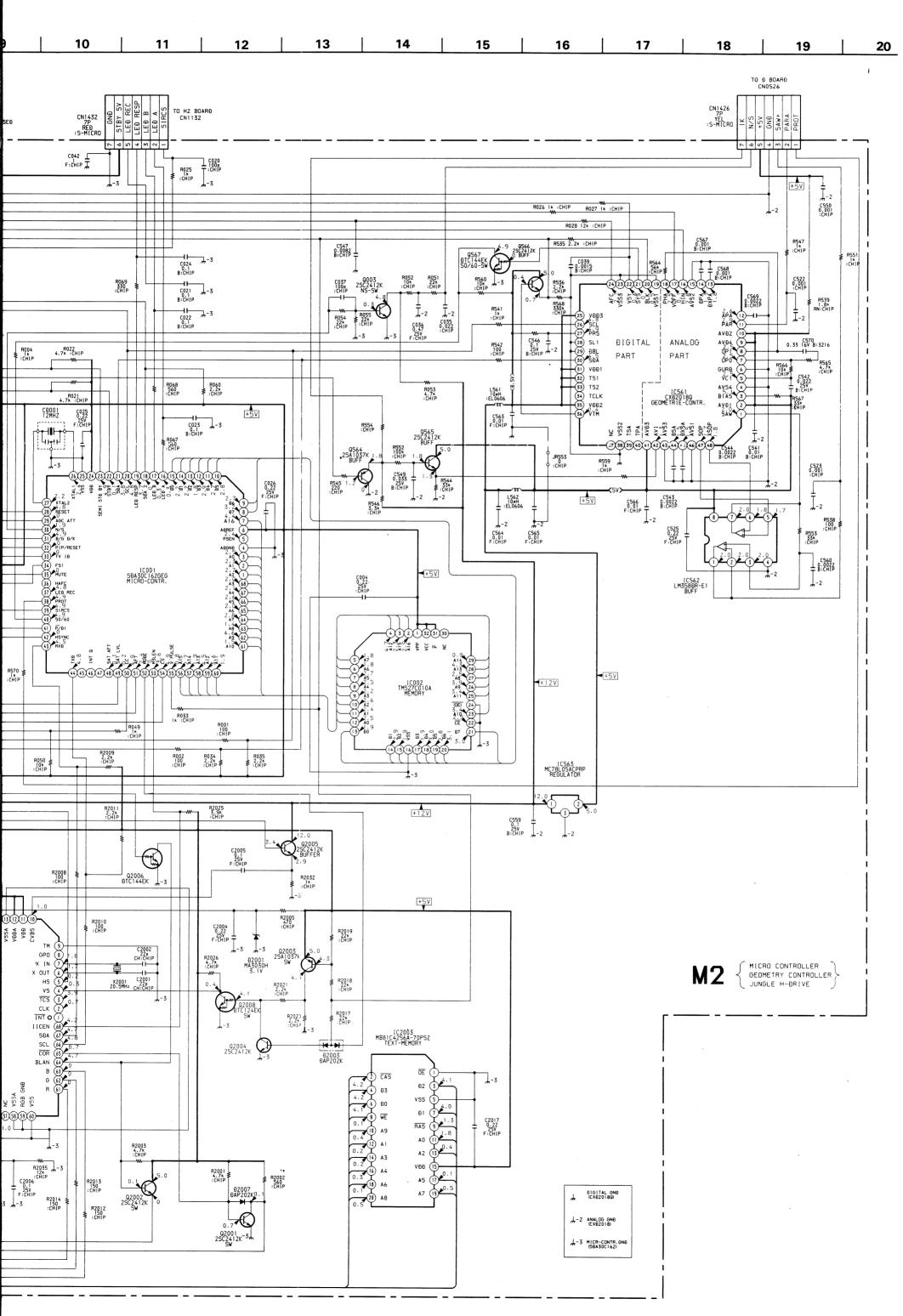
Ε

F

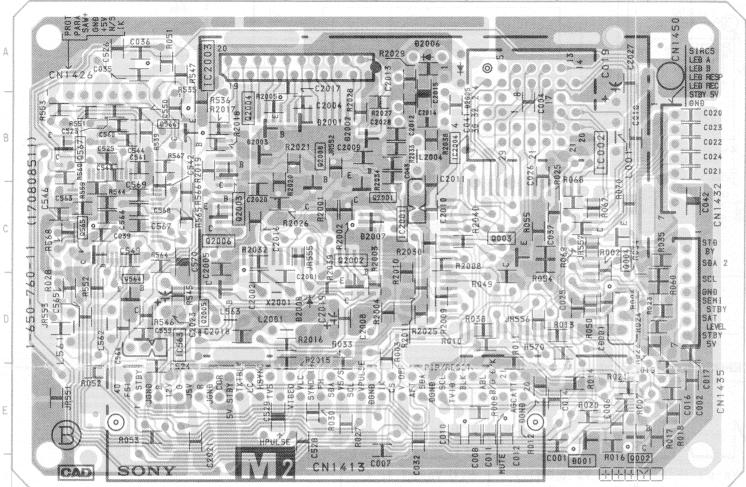
G

Н





- M2 BOARD -



		11
The second secon	TO SE	
THE COLUMN COLUM		T W
18032 B 18032 E 800		SA SA SE SE
		J Z LON
g low y	000	
	10	ONE C
		8 8 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9
31 6 S2023 7 S		
The contraction of the contracti	1 COO 1 58 1 C2001 60 L2004 1 COO 2 1 C2008 1 C2002 47 1 C2008 1 C200	21 1 1 N J J J J J J J J J J J J J J J J

	IC
IC001	C - 3
IC002	B-3, J-3
IC561	C - 8
IC562	B - 8
IC563	D - 7, $H - 7$
IC2001	C - 4, $I - 4$
IC2002	C-6
IC2003	B - 5, J - 6
IC2004	A - 4, $J - 4$
	, when down and light
TRAN	ISISTOR
Q002	G - 2
Q003	1 – 3
Q564	H - 7
Q565	1-8
Q566	J - 7
Q567	J - 8
Q2001	1 – 5
02002	J = 5
Q2003	1 – 6
Q2005	H – 5
Q2006	K – 5
Q2008	1-6
D	IODE
D001	G – 2
D2001	1 - 5,
D2002	J - 5

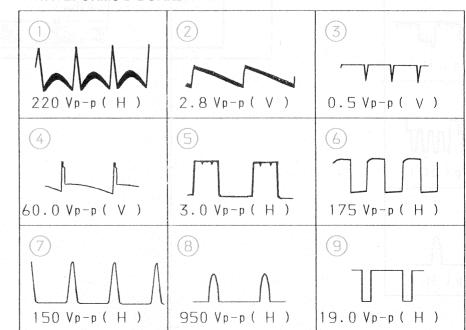
D2003

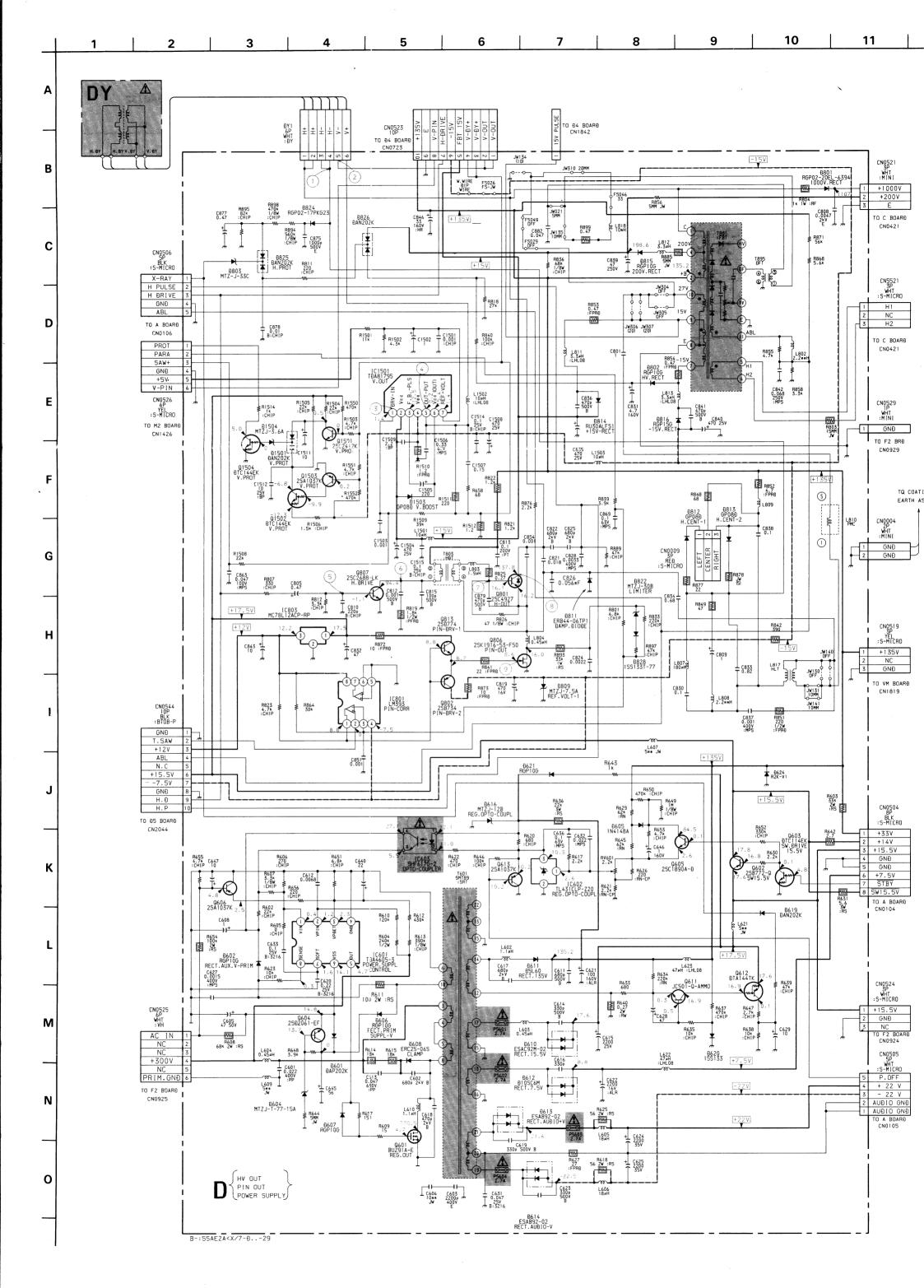
1-6

Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.

· WAVEFORMS D BOARD

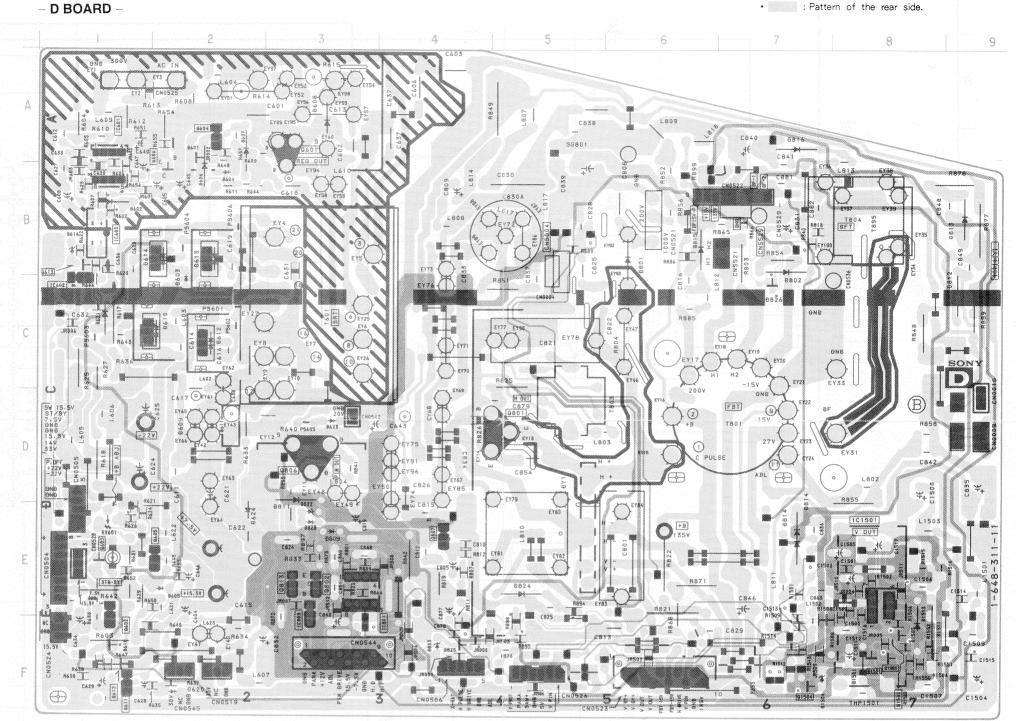


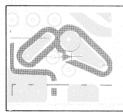




· Pattern from the side which enables seeing.

• : Pattern of the rear side.

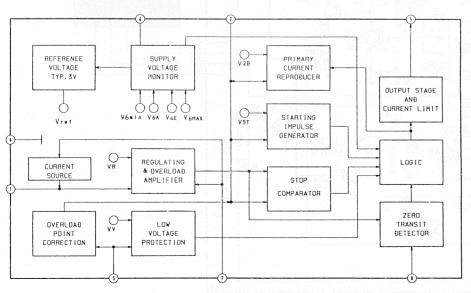




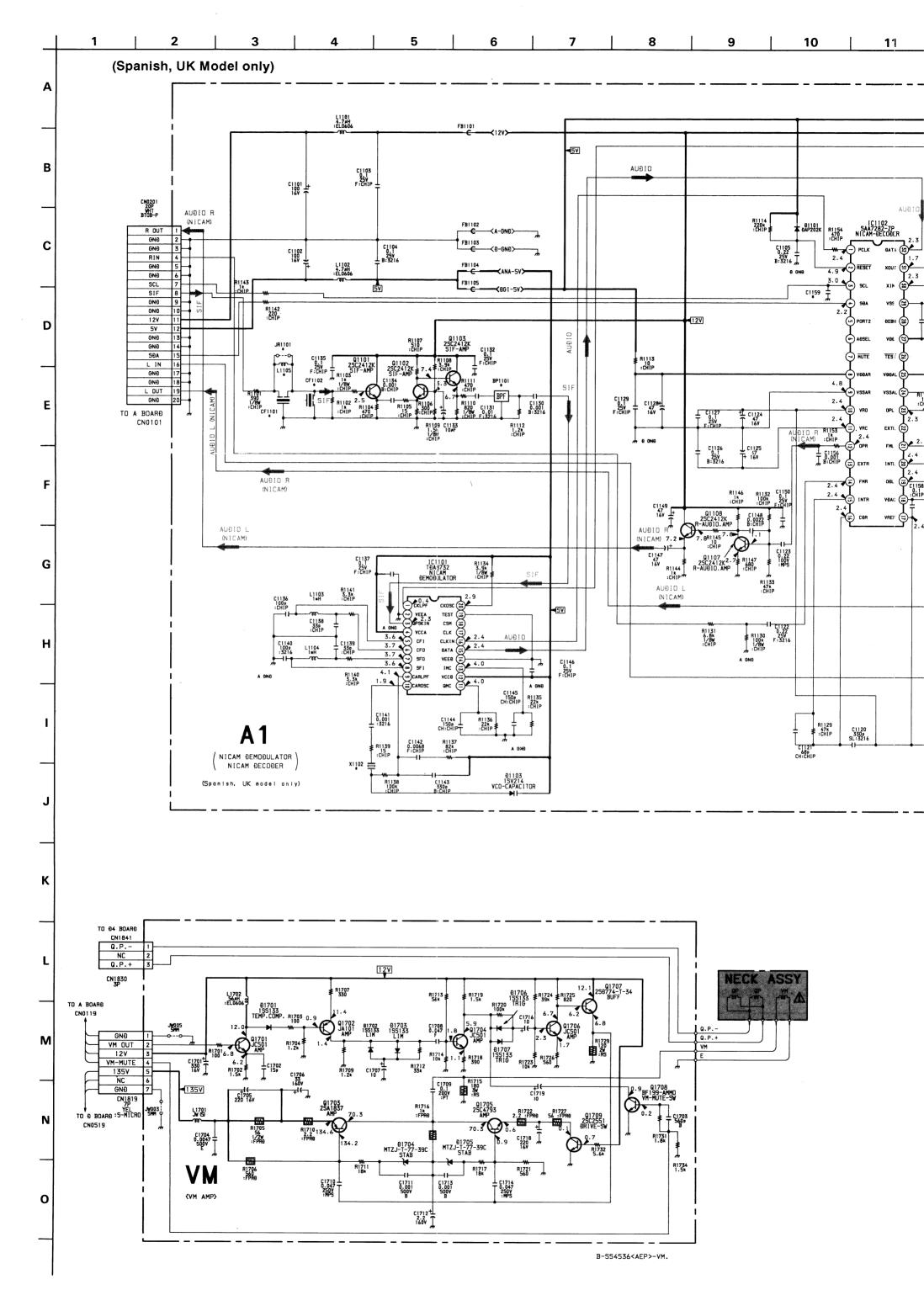
NOTE:

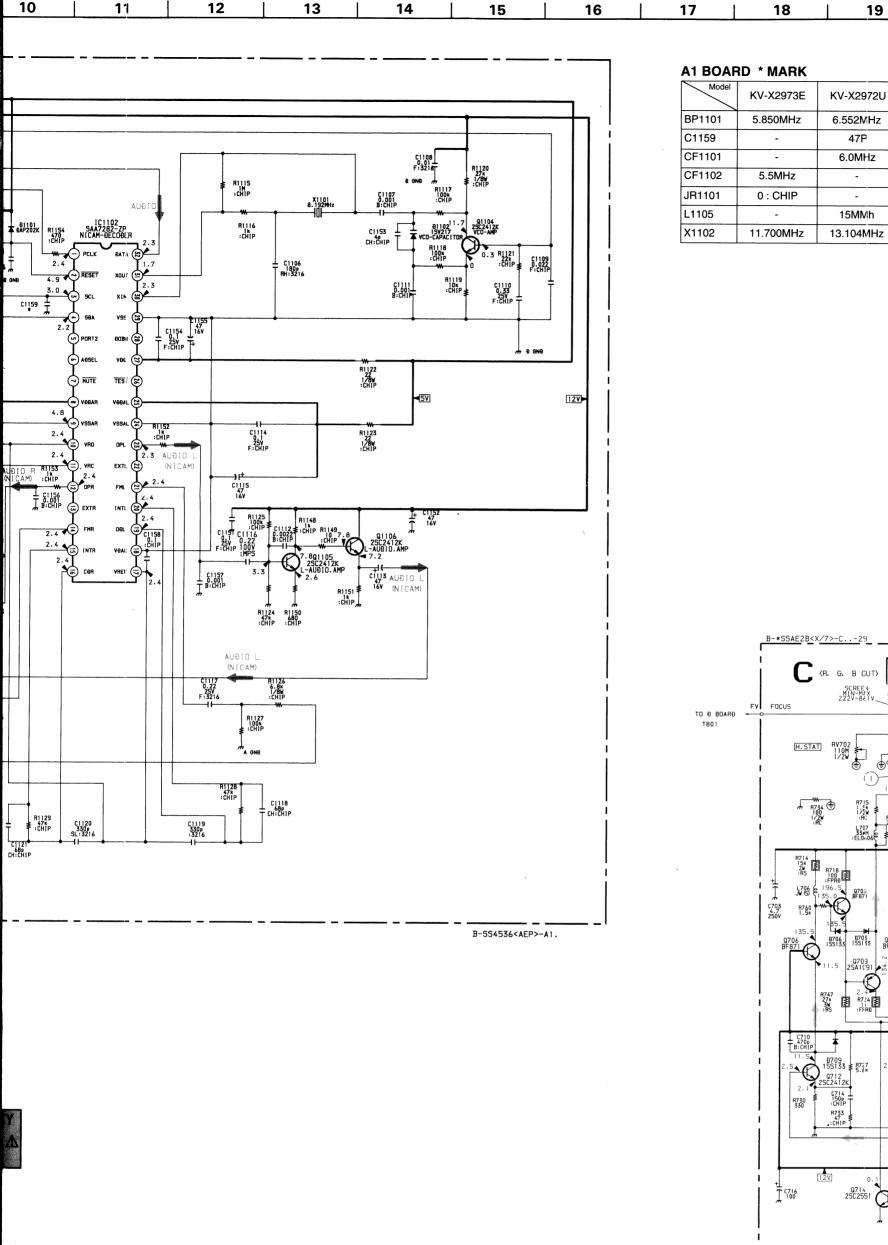
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

• D BOARD IC601 TDA4605-3

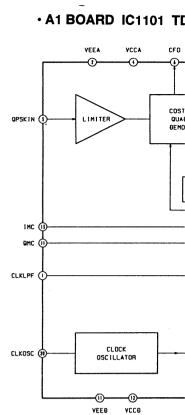


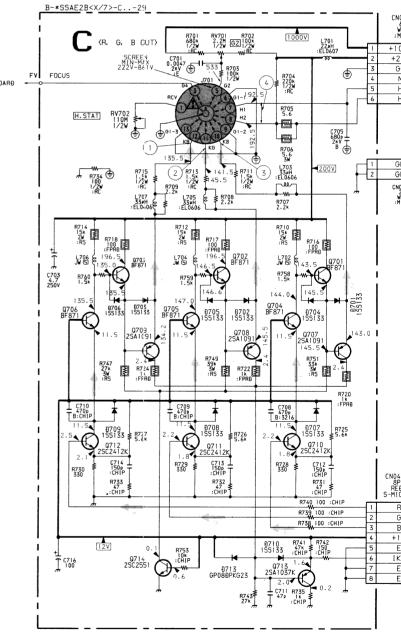
IC IC601	D607 A - 2 D608 A - 3 D610 C - 2 D611 D - 2 D612 C - 2 D613 B - 2 D614 B - 2 D616 B - 1 D619 F - 1 D620 F - 2 D621 C - 1 D624 E - 2 D801 B - 6 D802 B - 7 D803 F - 4
Q605 E - 2 Q606 B - 2 Q611 F - 1 Q612 F - 1 Q613 B - 1 Q801 D - 5 Q802 E - 3 Q806 D - 3 Q807 E - 4 Q813 E - 3 Q1501 F - 8 Q1502 F - 8 Q1503 F - 8 Q1504 F - 7	D809 E - 3 D811 D - 3 D812 C - 9 D813 B - 9 D814 E - 7 D815 B - 6 D816 A - 7 D822 E - 3 D824 E - 5 D825 F - 4 D826 C - 7 D828 E - 3 D1501 F - 8 D1503 F - 8
DIODE	D1504 F-7
D601 A - 2 D602 B - 1 D604 B - 2 D605 E - 2 D606 B - 2	VARIABLE RESISTOR RV601 E - 1



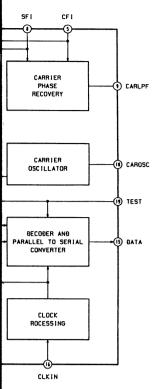


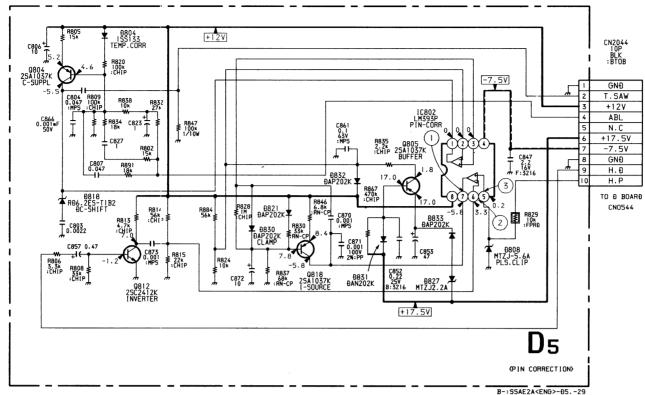
Model	KV-X2973E	KV-X2972U
BP1101	5.850MHz	6.552MHz
C1159	-	47P
CF1101	-	6.0MHz
CF1102	5.5MHz	-
JR1101	0 : CHIP	-
L1105	-	15MMh
X1102	11.700MHz	13.104MHz



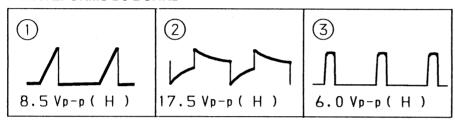


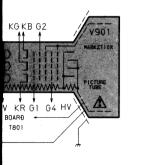


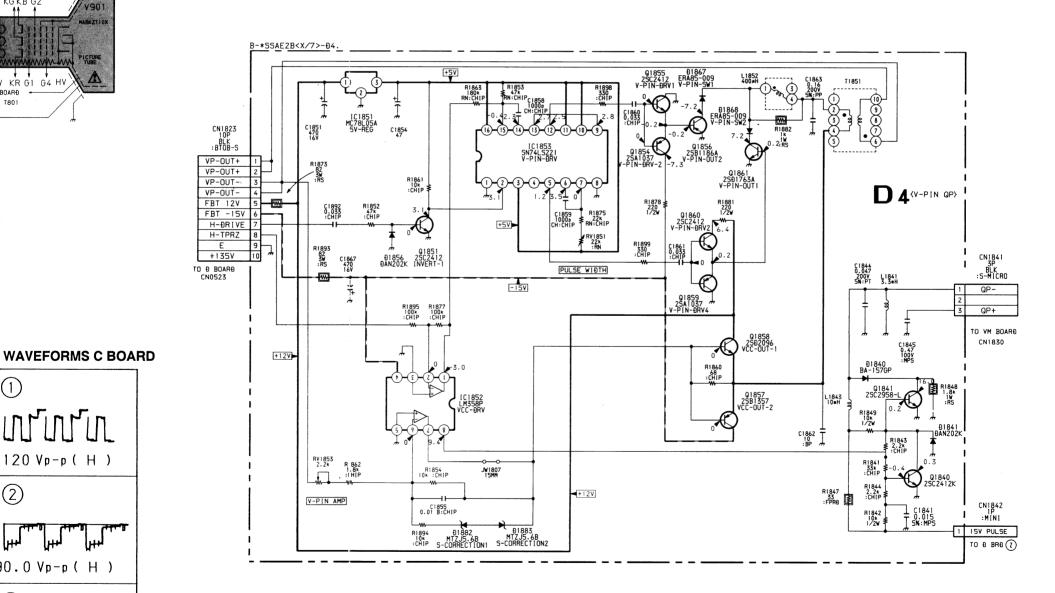


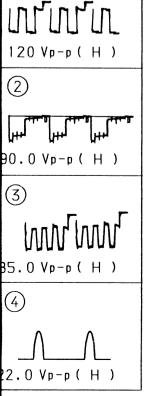




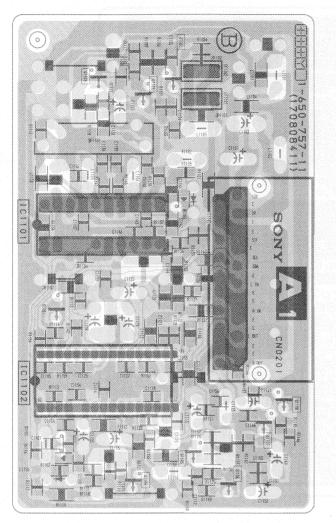


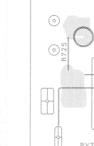




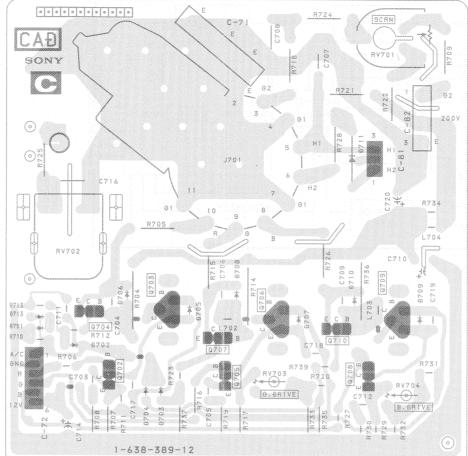


- A1 BOARD - (Spanish, UK Model only)





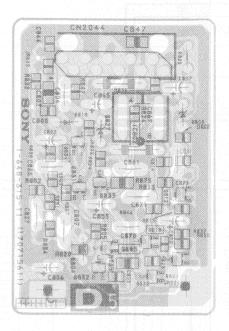




Note:

- · Pattern from the side which enables seeing.
- : Pattern of the rear side.

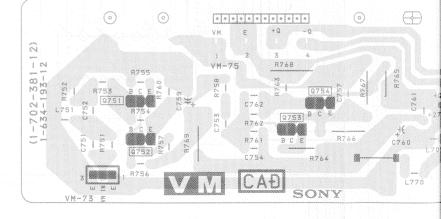
- D5 BOARD -



Note:

- Pattern from the side which enables seeing.
- : Pattern of the rear side.

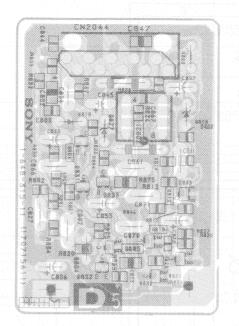
- VM BOARD -



1000

1-638-389-12

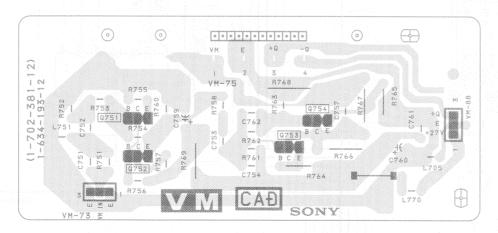
- D5 BOARD -



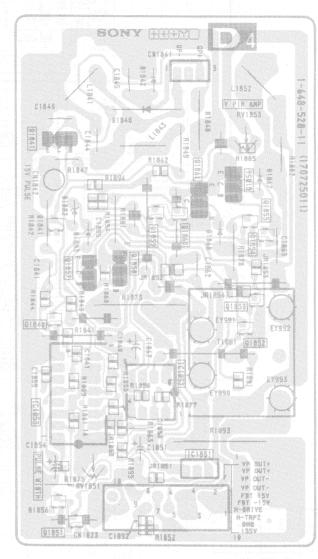
Note:

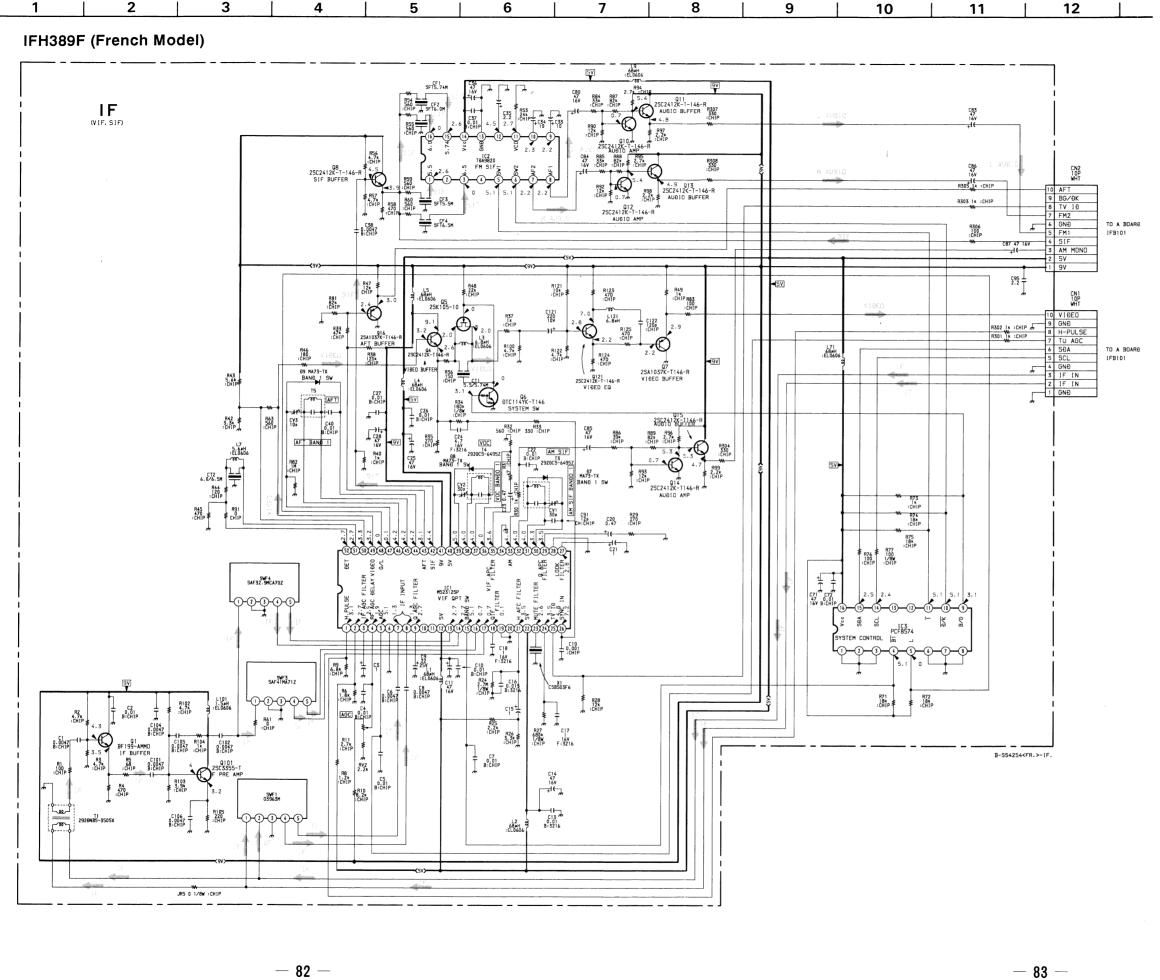
- Pattern from the side which enables seeing.
- : Pattern of the rear side.

- VM BOARD -

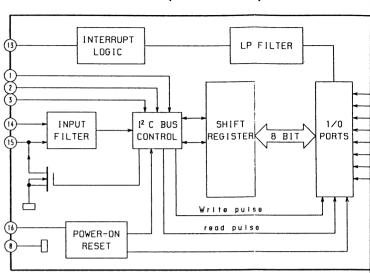


- D4 BOARD -



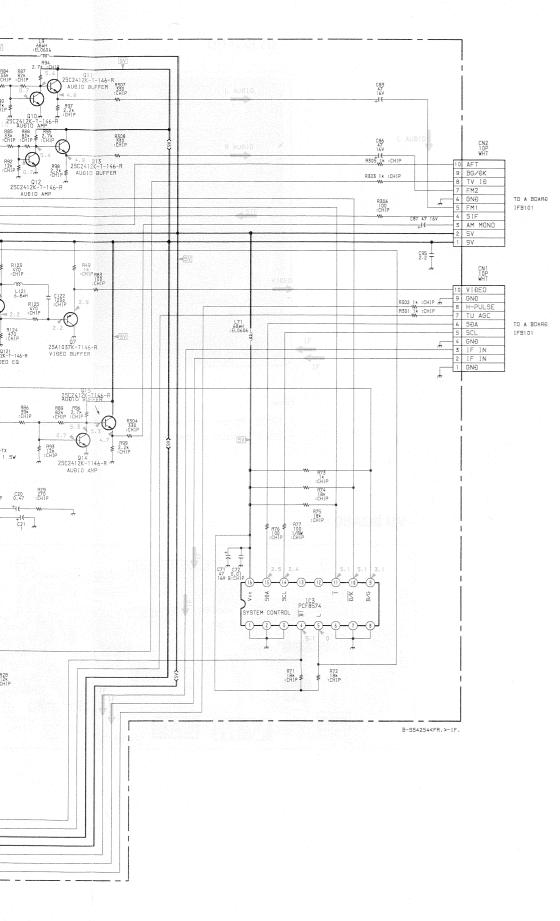


• IF BOARD IC3 PC8574 (French Model)

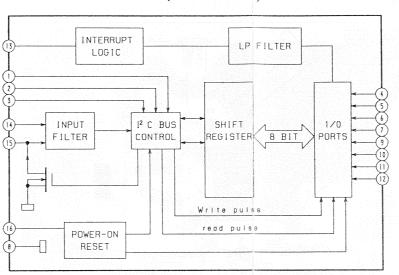


D

G

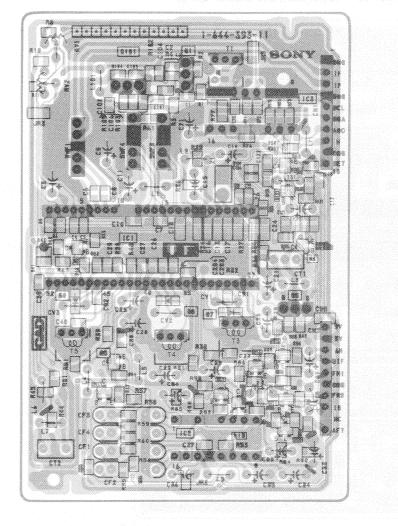


· IF BOARD IC3 PC8574 (French Model)



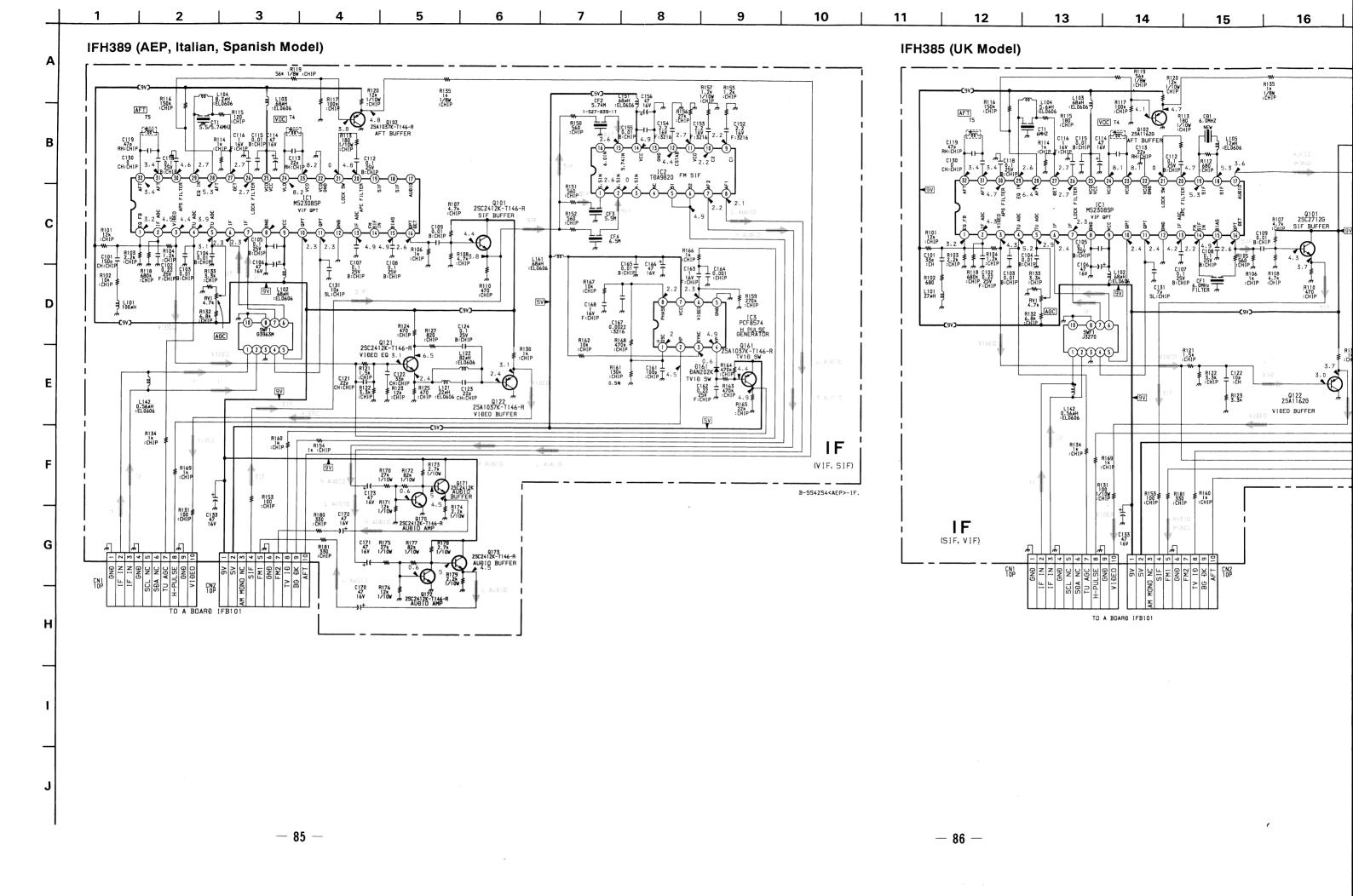


- IF BOARD - (French Model)



Note:

- Pattern from the side which enables seeing.
- · : Pattern of the rear side.





R161 130k :CHIP 0.5%

₹ R122 C122 3.3k 10p CHIP T :CH

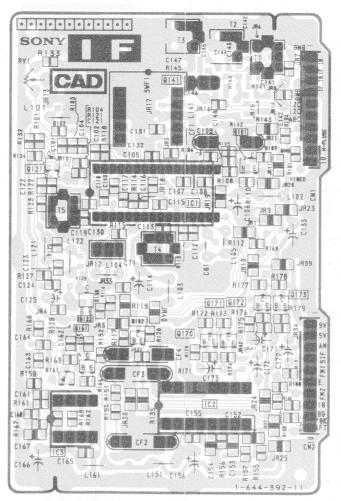
₹ R123

Q122 25A1162G

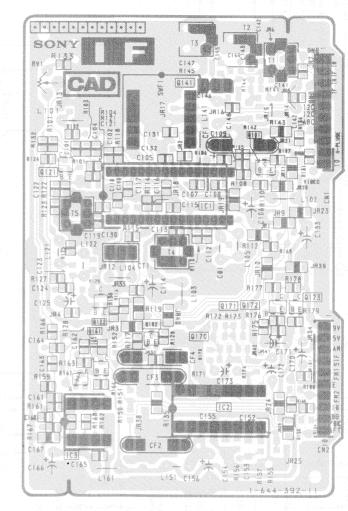
VIĐEO BUFFER



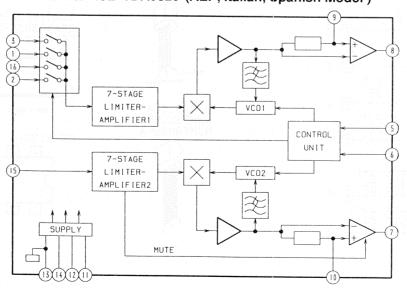




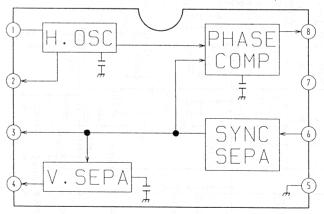
- IF BOARD - (UK Model)



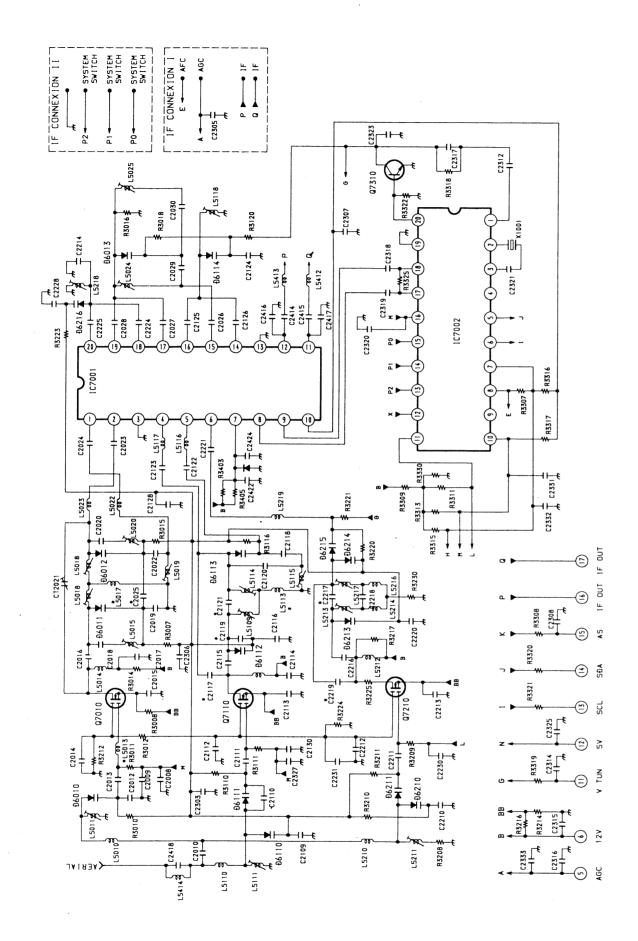
· IF BOARD IC2 TDA9820 (AEP, Italian, Spanish Model)



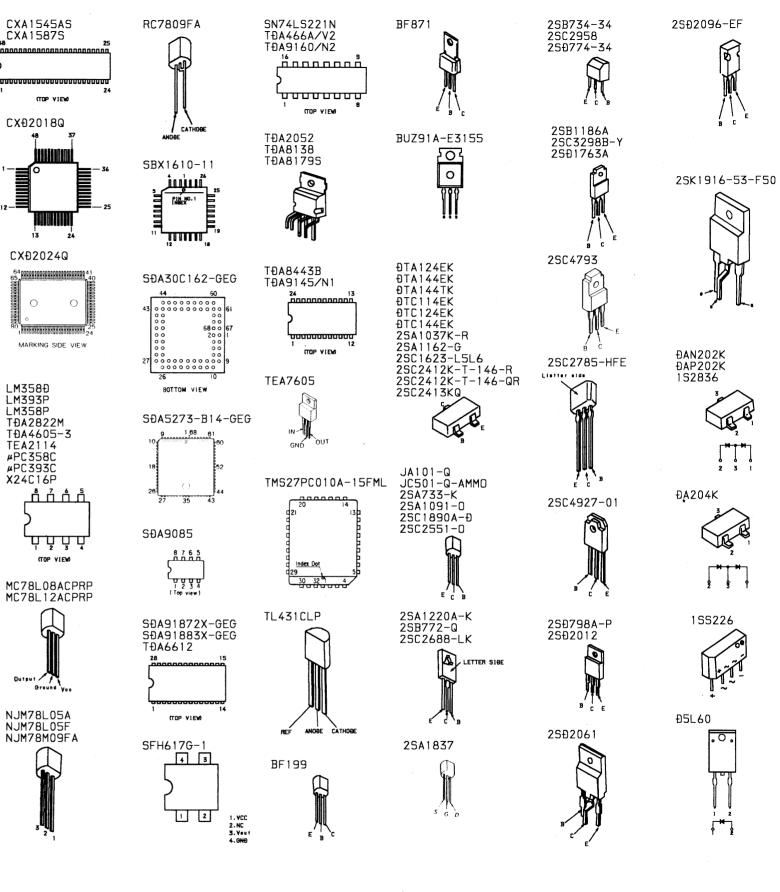
· IF BOARD IC3 BA7046 (AEP, Italian, Spanish Model)

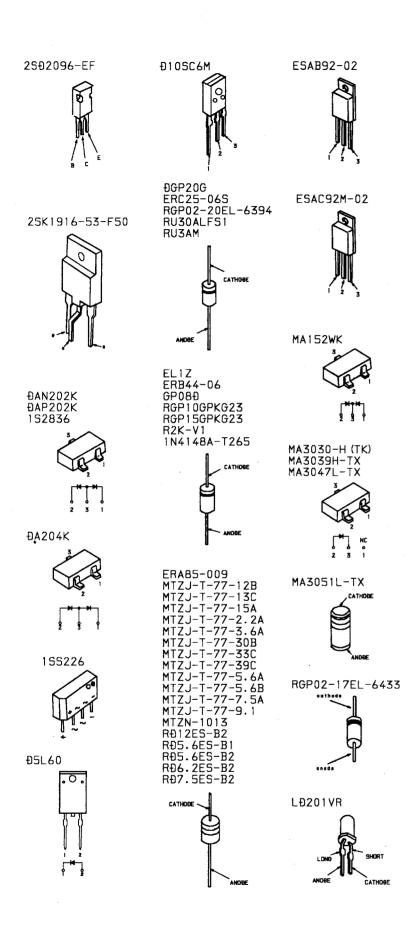


B-SS4254<UK.>-IF.



5-5. SEMICONDUCTORS





-91-

SECTION 6

EXPLODED VIEWS

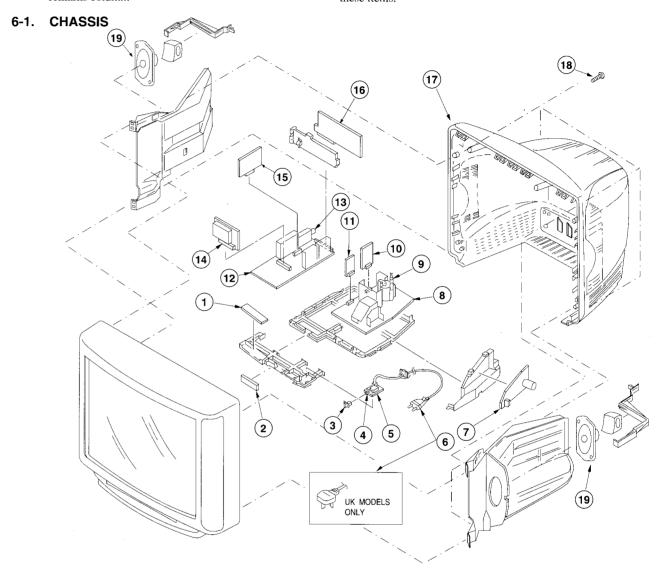
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service.

 Some delay should be anticipated when ordering these items.

The components identified by shading and marked /! are critical for safety.

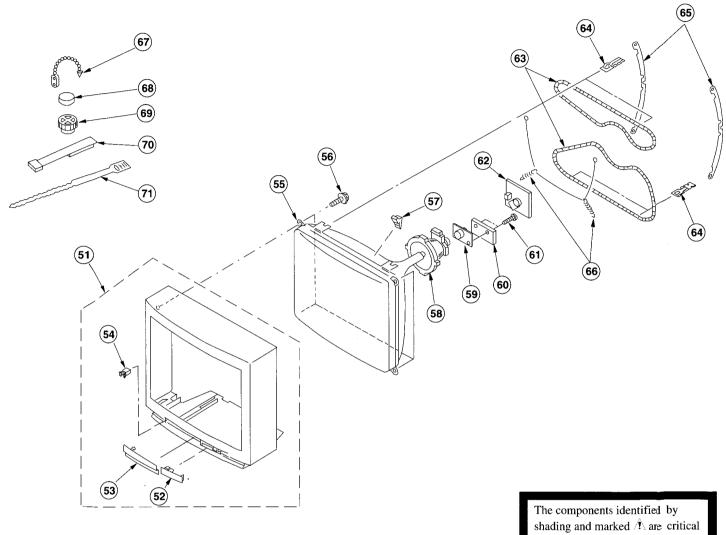
Replace only with the part number specified.



	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*A-1646-045-A	H1 BOARD, COMPLETE		11	*A-1640-109-A	D5 BOARD, COMPLETE	
2	*1-650-759-11	H2 BOARD		12	*A-1632-170-A	A BOARD, COMPLETE	
3	4-202-637-01	BUTTON, POWER				(KV-X2971A, X2921D, X	X2971K)
4	1. 1-571-433-11	SWITCH, PUSH (AC POV	(ER)		*A-1632-183-A	A BOARD, COMPLETE (KV-	X2971B)
5	*1-648-312-11	F1 BOARD				A BOARD, COMPLETE (KV-	
6	1-751-680-11	CORD, POWER (WITH NO)ISE FILTER)		*A-1632-180-A	A BOARD, COMPLETE (KV-	X2973E)
		(KV-X297	1A, X2971D, X2971K)	13		TUNER (U944C) (KV-X29	
	1-690-270-21	CORD, POWER (WITH CO	NNECTOR)		1-693-185-11	TUNER (UV916H) (KV-X29	71B,X2971D
		1	KV-X2971B, X2973E)			X2971K, X2973E, X29	71A)
	£ 1-590-762-11	CORD, POWER (WITH PI	LUG) (KV-X2922U)	14	*A-1635-015-A	M2 BOARD, COMPLETE	,
7	*A-1624-018-A	F2 BOARD, COMPLETE	}	15	*A-1632-178-A	A1 BOARD, COMPLETE (K	V-X2972U)
8	*A-1642-097-A	D BOARD, COMPLETE				A1 BOARD, COMPLETE (K	•
9	1-453-153-11	TRANSFORMER ASSY, FL	YBACK (NX-JU2602A2)	16	*A-1651-057-A	J BOARD, COMPLETE	,
10	*A-1642-116-A	D4 BOARD, COMPLETE	•	17	4-043-530-01		
		,		18		SCREW (4x16), (+) BV T	APPING
				19	1-544-728-11		

- 92 -

6-2. PICTURE TUBE



for safety.

Replace only with the part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-4031-666-1	CABINET ASSY (WITH BEZEL ASSY)	52-54	62	*A-1638-042-A	C BOARD, COMPLETE	
52	4-202-643-01	WINDOW, ORNAMENTAL		63	1 1-406-807-21	COIL, DEGAUSSING	
53 54 55	4-202-642-01	DOOR		64	4-202-415-01	CLIP, DGC (29")	
54	4-392-036-01	CATCHER, PUSH		65	4-202-416-01	BAND, DGC	
	8-733-841-05	PICTURE TUBE (M68KZT10X)		66	4-200-433-01	SPRING, EXTENSION	
56	4-036-188-01	SCREW (M), PT		67		CLIP, LEAD WIRE	
57	3-704-495-01			68		MAGNET, DISK; 10MM	
58		DEFLECTION YOKE (Y29GXA)		69		MAGNET, ROTATABLE DISI	
	1-452-509-11	NECK ASSY, PICTURE TUBE (NA308	1)	70		PERMALLOY ASSY, CONVER	GEN C E
60	*A-1644-040-A	VM BOARD, COMPLETE		71	3-701-007-00	BAND, BINDING	
61	4-039-357-01	SCREW 3x8, BV TAPPING					

ELECTRICAL PARTS LIST SECTION 7

The components identified by shading and marked 1 are critical Replace only with the part number

specified.

Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

All resistors are in ohms





name.

CAPACITORS

MF: mF, PF: mmF

F2 F1 A1 (KV-X2972U)

When indicating parts by reference;

COILS

MMH: mH, µH:

number, please include the board

	• F: nonflammab							A	\ KV-)	(2973E /			
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	DN		REMARK			
	*A-1624-018-A	F2 BOARD, COMPLETE	(KV-X2971A, X2971K)	X2971D,	R671	1-249-417-11		1K 5%	1/4W	F			
	*A-1624-036-A	F2 BOARD, COMPLETE	(KV-X2971B, X2972U)	X2973E,	RY661 A	< REL 1-515-720-31							
	< CAP	ACITOR >			< THERMISTOR >								
C662 ±	1-136-519-12 1-136-518-12 1-164-503-61 1-124-479-11	FILM 0.33MF CERAMIC 0.0022	20%	300V 300V 400V 25V	THP661 *	1-809-827-11	•			*****			
C667	1-126-337-11		20%	50V		*1-648-312-11	F1 BOARD						
	1-161-964-61 1-161-964-61 1-125-555-11	CERAMIC 0.0047	MF MF 20%	250V 250V 400V		< CON	NECTOR >						
	< CON	NECTOR >				*1-580-844-11 *1-695-292-11							
CN0005		PIN, CONNECTOR (5MM				< FUS	E >						
CN0007 CN0924	*1-568-878-51	PIN, CONNECTOR (5MM PIN, CONNECTOR 3P			F651 🖭	1-576-232-21	FUSE (H.B.C.) 5A/250V					
CN0925 CN0929		PIN, CONNECTOR (PC PIN, CONNECTOR (5MM				< SWI	TCH >						
CN0931 ±	*1-691-291-11	PIN, CONNECTOR (PC	BOARD) 5P		S651 ±	1-571-433-11	SWITCH, PUSH	(AC POWER)					
	< DIC	DDE >			******	******	*****	******	******	*****			
D661 D663		DIODE 1SS133 DIODE D4SB60L				*A-1632-179-A	A1 BOARD, COI		X2973E)				
D664		DIODE RD5.6ESB2				*A-1632-178-A	A1 BOARD, COI		X2972U)				
***************************************	< TR/	ANSFORMER >				< CAP	ACITOR >						
LF661 <u>*</u> LF662 *	1-423-688-11 1-424-391-11	TRANSFORMER, LINE I	PILTER (LFT) PILTER 971A,X2971D,		C1101 C1102	1-126-101-11 1-126-101-11		100MF 100MF	20% 20%	16V 16V			
	< TR}	ANSISTOR >	,, in any in a	M257 IN	C1102 C1103 C1104	1-163-077-00 1-163-077-00	CERAMIC CHIP	0.1MF	10% 10%	25V 25V			
Q661		TRANSISTOR 2SC2412E	₹-OR		C1105	1-164-489-11			10%	16V			
		SISTOR >	A		C1106 C1107	1-163-383-91 1-163-009-11			5% 10%	50V 50V			
R663 A R664 A R665 A	1-244-945-91 1-205-949-11	CARBON 1M WIREWOUND 1,8			C1108 C1109 C1110	1-163-059-00 1-163-033-00 1-164-336-11	CERAMIC CHIP	0.01MF 0.022MF		50V 50V 25V			
R666 R667	1-247-807-31 1-249-430-11	CARBON 100	5% 1/4W 5% 1/4W	I F	C1111 C1112 C1113	1-163-009-11 1-164-161-11 1-124-477-11	CERAMIC CHIP		10% 10% 20%	50V 50V 16V			
R668 R669 i	1-249-436-11 1-205-949-11	CARBON 39K WIREWOUND 1.8	5% 1/4W 5% 10W	1	C1114	1-163-038-00 1-124-477-11	CERAMIC CHIP		20%	25V 16V			

									L	\		· · · · · · · · · · · · · · · · · · ·
REF.NO.	PART NO.	DESCRIPTIO	<u>DN</u>	!	REMARK	REF.NO.	PART NO.	DESCRIPT	ION	_		REMARK
C1116	1-106-228-00	MYLAR	0.22MF	10%	100V		< FER	RITE BEAD >				
C1117		CERAMIC CHIP		F0	25V	- D4464	1 410 205 41			on 0 4	F	
C1118 C1119	1-163-113-00 1-163-129-00	CERAMIC CHIP		5% 5%	50V 50V	FB1101 FB1102	1-410-396-41 1-410-396-41					
C1120	1-163-193-00	CERAMIC CHIP		5%	50V	FB1103	1-410-396-41	FERRITE BEAL	INDUCTO	OR 0.4	5UH	
01101	4 162 142 00	ADDINITA AUTO	COD#	F0.	F 0**	FB1104	1-410-396-41					
C1121 C1122		CERAMIC CHIP		5%	50V 25V	FB1105	1-410-396-41	FERRITE BEAL	INDUCTO	JR U.4	SUH	
C1123	1-106-228-00	MYLAR	0.22MF		100V		< IC	>				
C1124 C1125		ELECT	47MF 47MF	20% 20%	16V 16V	IC1101	8-759-511-88	TO MD30722				
C1125	1-124-477-11	БПЕСТ	4 / Mr	20%	101	IC1101 IC1102		IC TDA6732 IC SAA7282-2	ZP			
C1126	1-163-077-00	CERAMIC CHIP		10%	25V							
C1127 C1128	1-163-038-00 1-124-477-11	CERAMIC CHIP	0.1MF 47MF	20%	25V 16V		< C0I	L >				
C1120	1-163-038-00	CERAMIC CHIP		2070	25V	L1101	1-408-405-00	INDUCTOR 4	.7UH			
C1130	1-163-205-00	CERAMIC CHIP		10%	50V	L1102	1-408-405-00		.7UH			
C1131	1-163-059-00	CERAMIC CHIP	0 01MP		50V	L1103 L1104	1-410-119-11 1-410-119-11		OMH OMH			
C1132	1-163-038-00	CERAMIC CHIP			25V	L1105	1-408-411-00			x2972υ)	
C1133	1-124-907-11	ELECT	10MF	20%	50V			waramon.				
C1134 C1135	1-163-009-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP		10%	50V 25V		< TRA	NSISTOR >				
						Q1101	8-729-920-74	TRANSISTOR 2	SC2412K-	-QR		
C1136	1-163-117-00	CERAMIC CHIP		5%	50V	Q1102	8-729-920-74					
C1137 C1138	1-163-038-00 1-163-105-00	CERAMIC CHIP		5%	25V 50V	Q1103 Q1104	8-729-920-74 8-729-920-74			~		
C1139	1-163-105-00	CERAMIC CHIP		5%	50V	Q1105	8-729-920-74					
C1140	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	01106	0 700 000 74	mpanaramon (00001107	O.D.		
C1141	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V	Q1106 Q1107	8-729-920-74 8-729-920-74	TRANSISTOR 2				
C1142	1-163-057-00	CERAMIC CHIP	0.0068MF		50V	Q1108	8-729-920-74					
C1143 C1144	1-163-003-11 1-163-121-00	CERAMIC CHIP		10% 5%	50V 50V		, DEC	ISTOR >				
C1144	1-163-121-00	CERAMIC CHIP		5%	50V		< KES	1210K >				
					25	JR1101	1-216-296-91	METAL GLAZE	0	5%	1/8W	
C1146 C1147	1-163-038-00 1-124-477-11	CERAMIC CHIP ELECT	0.1MF 47MF	20%	25V 16V	JR1102	1-216-296-91	METAL CLASE	0	(KV-X2) 5%	973E) 1/8 W	
C1148	1-164-161-11	CERAMIC CHIP		10%	50V	JR1103	1-216-296-91		ŏ	5%	1/8W	
C1149	1-124-477-11	ELECT	47MF	20%	16V	JR1104	1-216-295-91	METAL GLAZE	0	5%	1/1 O W	
C1150	1-163-038-00	CERAMIC CHIP	U.1MF		25V	R1101	1-216-188-00	METAL GLAZE	390	5%	1/8 W	
C1151	1-163-038-00	CERAMIC CHIP			25V .	R1102	1-216-049-00	METAL GLAZE	1K	5%	1/1 OW	
C1152 C1153		ELECT	47MF	20% 0.25PF	16V	R1103	1-216-049-00		1K	5%	1/10W	
C1153	1-163-087-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP		U.25PF	25V	R1104 R1105	1-216-041-00 1-216-005-00		470 15	5% 5%	1/1 OW 1/1 OW	
C1155	1-124-477-11		47MF	20%	16V							
C1156	1-163-009-11	CEDAMIC CUID	0.001112	10%	50V	R1106 R1107	1-216-185-00 1-216-042-00		300 510	5% 5%	1/8 W 1/1 O W	
C1157	1-163-009-11			10%	50V	R1108	1-216-063-00		3.9K		1/10W	
C1158	1-163-038-00				25V	R1109	1-216-202-00		1.5K		1/\W	
C1159	1-163-243-11	CERAMIC CHIP	47PF	5% (KV-X	50V (2972U)	R1110	1-216-196-00	METAL GLAZE	820	5%	1/IW	
				(200 21	113720;	R1111	1-216-041-00		470	5%	1/1 O W	
	< FIL	TER >				R1112	1-216-051-00		1.2K		1/1 OW	
BP1101	1-236-238-12	FILTER. BAND	PASS (KV-X2	972[])		R1113 R1114	1-216-001-00 1-216-105-00		10 220K	5% 5%	1/1 O W 1/1 O W	
	1-239-047-11	FILTER, BAND	PASS (KV-X2	2973E)		R1115	1-216-121-00		1M	5%	1/1 O W	
CF1101 CF1102	1-409-333-00					D1114	1-216-049-00	MDMAT OTAGE	1K	E%	1/1 O W	
OF 1102	1-404-134-00	TRAP, CERAMI	C (3.3MHZ) (. NV-A29/)el	R1116 R1117	1-216-049-00		1K 100K	5% 5%	1/10W	
	< CON	NECTOR >				R1118	1-216-097-00	METAL GLAZE	100K	5%	1/1 O W	
CN0201	1-695-300-11	CONNECTOR R	በል RD ጥ በ ክቦልዩ	20p		R1119 R1120	1-216-073-00 1-216-232-00		10K 27K	5% 5%	1/1 O W 1/1 W	
	- 033-300-TI	COMMECTOR, D	OTTO TO DONE	W AVE								
	< DIC	DE >				R1121 R1122	1-216-081-00 1-216-158-00		22K 22	5% 5%	1/1 O W 1/1 W	
D1101	8-719-914-44	DIODE DAP202	K			R1122 R1123	1-216-158-00		22	5%	1/10/	
D1102	8-719-027-70	DIODE 1SV217	-TPH3			R1124	1-216-089-91	METAL GLAZE	47K	5%	1/1 O W	
D1103	8-719-820-71	DIODE 1SV214				R1125	1-216-097-00	METAL GLAZE	100K	5%	1/1 O W	
						R1126	1-216-218-00	METAL GLAZE	6.8K	5%	1/10	

A1(KV-X2972U KV-X2973E)		Α
-----	--------------------------	--	---

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R1127 R1128 R1129 R1130	1-216-097-00 1-216-089-91 1-216-089-91 1-216-246-91	METAL GLAZE 47K 5% METAL GLAZE 47K 5%	1/10W 1/10W 1/10W 1/8W	C207 C208 C209 C210	1-137-613-11 1-164-005-11 1-164-005-11 1-164-005-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF	2%	100V 25V 25V 25V
R1131 R1132 R1133 R1134 R1135	1-216-218-00 1-216-097-00 1-216-089-91 1-216-212-00 1-216-081-00	METAL GLAZE 100K 5% METAL GLAZE 47K 5% METAL GLAZE 3.9K 5%	1/8W 1/10W 1/10W 1/8W 1/10W	C213 C214 C215 C216 C217		CERAMIC CHIP 0.015MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF	10% 10% 10% 10% 20%	50V 50V 25V 25V 50V
R1136 R1137 R1138 R1139 R1140	1-216-081-00 1-216-095-00 1-216-097-00 1-216-005-00 1-216-061-00	METAL GLAZE 82K 5% METAL GLAZE 100K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C218 C219 C220 C221 C222	1-124-925-11 1-163-011-11 1-163-011-11 1-124-925-11 1-124-925-11	CERAMIC CHIP 0.0015MF CERAMIC CHIP 0.0015MF ELECT 2.2MF	20% 10% 10% 20% 20%	50V 50V 50V 50V 50V
R1141 R1142 R1143 R1144 R1145	1-216-061-00 1-216-033-00 1-216-049-00 1-216-049-00 1-216-001-00	METAL GLAZE 220 5% METAL GLAZE 1K 5% METAL GLAZE 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C223 C224 C225 C226 C227		FILM 1MF CERAMIC CHIP 0.0033MF CERAMIC CHIP 680PF	5% 5% 10% 10% 20%	50V 50V 50V 50V 50V
R1146 R1147 R1148 R1149 R1150	1-216-049-00 1-216-045-00 1-216-049-00 1-216-001-00 1-216-045-00	METAL GLAZE 680 5% METAL GLAZE 1K 5% METAL GLAZE 10 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C228 C229 C230 C231 C232		ELECT 100MF	20% 20% 20% 10%	50V 25V 25V 16V 50V
R1151 R1152 R1153 R1154	1-216-049-00 1-216-049-00 1-216-049-00 1-216-041-00	METAL GLAZE 1K 5% METAL GLAZE 1K 5% METAL GLAZE 470 5%	1/10W 1/10W 1/10W 1/10W	C233 C234 C235 C236 C237		ELECT 2200MF	10% 10% 5% 20% 20%	50V 50V 63V 35V 35V
X1101 X1102	1-579-689-21 1-579-282-21	VIBRATOR, CRYSTAL VIBRATOR, CRYSTAL (KV-) VIBRATOR, CRYSTAL (KV-)		C238 C239 C240 C241 C242	1-164-161-11 1-130-772-00 1-124-916-11 1-124-916-11 1-124-903-11	ELECT 22MF ELECT 22MF	10% 5% 20% 20% 20%	50V 63V 50V 50V 50V
******	**********	**********	******	Cata	1 124 703 11	HUECI IMP	40%	304
		A BOARD, COMPLETE (KV-)	1K)	C244 C248 C249	1-163-185-00 1-163-129-00		10% 5% 5%	50V 50V 50V
		A BOARD, COMPLETE (KV-)		C251 C254	1-126-320-11 1-163-133-00	ELECT 10MF CERAMIC CHIP 470PF	20% 5%	16V 50V
	*A-1632-179-A	A BOARD, COMPLETE (KV-X	(2973E)	C255	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
	*A-1632-180-A	A BOARD, COMPLETE (KV-X	(2972U)	C256 C257	1-163-133-00 1-163-133-00	CERAMIC CHIP 470PF	5% 5%	50V 50V
	< CA	PACITOR >		C299 C301	1-164-337-11 1-163-038-00	CERAMIC CHIP 2.2MF CERAMIC CHIP 0.1MF		16V 25V
C071 C072 C074 C102 C103	1-126-108-11 1-124-120-11 1-163-001-11 1-126-103-11 1-163-031-11	ELECT 220MF CERAMIC CHIP 220PF ELECT 470MF	20% 16V 20% 16V 10% 50V 20% 16V 50V	C302 C303 C304 C305 C306	1-163-038-00 1-164-337-11 1-164-004-11 1-163-096-00 1-163-097-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.1MF CERAMIC CHIP 13PF CERAMIC CHIP 15PF	10% 5% 5%	25V 16V 25V 50V 50V
C104 C105 C106 C110 C120	1-124-477-11 1-124-916-11 1-124-927-11 1-124-478-11 1-163-031-11	ELECT 22MF ELECT 4.7MF ELECT 100MF	20% 16V 20% 50V 20% 50V 20% 25V 50V	C307 C308 C309 C310 C311		CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10%	50V 25V 25V 25V 25V
C201 C202 C203 C204	1-130-489-00 1-130-489-00 1-164-005-11 1-164-005-11	FILM 0.033MF	5% 50V 5% 50V 25V 25V	C312 C313 C314 C315	1-163-077-91 1-163-038-00	ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF	20% 20%	16V 50V 25V 16V
C205	1-124-907-11		20% 50V	C316		CERAMIC CHIP 0.1MF	_••	50V
C206	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C317	1-163-103-00	CERAMIC CHIP 27PF	5%	50V



REF.NO.	PART NO.	DESCRIPTION	Į	REMARI	REF.N	IO. PART NO.	DESCRIPTION		REMARK
C318 C319 C320 C321	1-163-038-00 1-124-477-11	CERAMIC CHIP 2 CERAMIC CHIP 0 ELECT 4 CERAMIC CHIP 0).1MF 17MF 20	25V	C592 C593 C595 C599	1-164-182-13 1-163-109-00	CERAMIC CHIP 0.003 CERAMIC CHIP 0.003 CERAMIC CHIP 47PF CERAMIC CHIP 0.01N	33MF 10% 5%	50V 50V 50V 50V
C322 C323 C324 C325 C341	1-124-477-11 1-163-111-00	CERAMIC CHIP 5	17MF 20' 56PF 5%	50V % 16V 50V	C644 C681 C682 C683 C685	1-124-916-1: 1-124-478-1: 1-126-516-1: 1-124-478-1: 1-124-478-1:	L ELECT 100M L ELECT 120M L ELECT 100M	20% 20%	50V 25V 16V 25V 25V
C342 C343 C344 C345	1-164-004-11 1-162-638-11 1-164-346-11	CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 1 CERAMIC CHIP 1).1MF 10 LMF LMF	% 25V 16V 16V	C686 C687	1-124-916-1	CERAMIC CHIP 0.1MI ELECT 22MF	20%	25V 50V
C346	1-124-925-11	ELECT 2	2.2MF 20	% 50V	CF58	1 1_577_61111	l OSCILLATOR, CERAMI	· c	
C347	1-162-638-11	CERAMIC CHIP 1	MF	16V	CF50.	1-5//-011-1.	I OSCILLATOR, CERAMI		
C348		CERAMIC CHIP 1		16V		< C0	ONNECTOR >		
C349 C350 C351	1-164-346-11 1-124-907-11 1-124-443-00		LMF 20 LOOMF 20		CN00		PIN, CONNECTOR 5P CONNECTOR, BOARD TO	BOARD 20F	
C353 C354 C355 C356 C357	1-164-346-11 1-162-638-11 1-164-489-11	CERAMIC CHIP 1 CERAMIC CHIP 1 CERAMIC CHIP 0 CERAMIC CHIP 0	LMF LMF).22MF 10		CN01 CN01 CN01 CN01	04 1-564-511-1: 05 *1-568-880-5: 06 *1-568-880-5:	L PLUG, CONNECTOR 81 L PLUG, CONNECTOR 81 L PIN, CONNECTOR 5P L PIN, CONNECTOR 5P)	
C358 C359 C360 C361 C362	1-124-907-11 1-163-105-00	CERAMIC CHIP 3 CERAMIC CHIP 2	LOMF 20 33PF 5%	% 50V 50V 50V	CN01 CN01 CN01 CN01 CN01	08 *1-568-878-53 09 1-695-299-13 10 *1-568-882-53	PIN, CONNECTOR 4P PIN, CONNECTOR 3P CONNECTOR, BOARD 1 PIN, CONNECTOR 7P CONNECTOR, BOARD 1		
C363 C365	1-124-907-11 1-124-120-11	ELECT 1 ELECT 2	LOMF 20 220MF 20	% 50V	CN01 CN51		PIN, CONNECTOR 4P PLUG, CONNECTOR 10	P	
C366	1-124-903-11		LMF 20			< D1	IODE >		
C369 C401		CERAMIC CHIP 1 CERAMIC CHIP 0		50V 16V	D068 D069		DIODE DAP202K DIODE DAP202K		
C402	1-124-034-51	ELECT 3	33MF 20	% 16V	D071		DIODE RD5.6ESB2		
C403		CERAMIC CHIP 0		16V	D073		DIODE RD5.6ESB2		
C411 C412		CERAMIC CHIP 0 CERAMIC CHIP 0		25V 25V	D075	8-/19-914-43	B DIODE DAN202K		
C421	1-124-477-11		47MF 20		D077 D078		DIODE DAN202K DIODE RD5.6ESB2		
C422	1-124-477-11		17MF 20		D079	8-719-109-89	DIODE RD5.6ESB2		
C423 C424	1-101-004-00 1-163-129-00		0.01MF 330PF 5%	50V 50V	D101 D206		7 DIODE MTZJ-33C B DIODE DAN202K		
C425		CERAMIC CHIP 3			2200				
C426	1-124-477-11	ELECT 4	47MF 20	% 16V	D207		DIODE MTZJ-13C DIODE 1SS133		
C427	1-164-346-11	CERAMIC CHIP 1	1MF	16V	D208 D209		B DIODE 188133		
C428	1-164-346-11	CERAMIC CHIP 1	1MF	16V	D210	8-719-901-33	B DIODE 1SS133		
C429 C574	1-124-119-00	ELECT 3 CERAMIC CHIP 1	330MF 20 100PF 5%		D211	8-719-901-33	B DIODE 1SS133		
C575	1-163-117-00				D212	8-719-901-33	B DIODE 1SS133		
					D213	8-719-914-43	B DIODE DAN202K		
C576 C581		CERAMIC CHIP (D214		2 DIODE DA204K		
C582	1-163-031-11	CERAMIC CHIP 0 ELECT 2	0.01MF 22MF 20	50V % 50V	D301 D304	8-719-914-43	B DIODE DAN202K DIODE RD5.6ESB2		
C583	1-163-133-00	CERAMIC CHIP 4	470PF 5%	50V					
C585	1-163-009-11	CERAMIC CHIP (0.001MF 10	% 50V	D305		B DIODE DAN202K		
C586	1-163-063-00	CERAMIC CHIP (0.022MF 10	% 50V	D306 D307		B DIODE DAN202K B DIODE DAN202K		
C587	1-124-903-11	ELECT 1	1MF 20	% 50V	D308		DIODE DA204K		
C588		CERAMIC CHIP 1		16V	D311	8-719-914-42	2 DIODE DA204K		
C589 C590	1-124-478-11 1-124-916-11		100MF 20 22MF 20		D312	8-719-914-4/	DIODE DAP202K		
	- 124-310-11	1111C1 2			D312		B DIODE DAN202K		
C591	1-124-925-11	ELECT 2	2.2MF 20	% 50V	D314	8-719-914-43	B DIODE DAN202K		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMAR
D381 D401		DIODE RD7.5ESB2 DIODE MTZJ9.1		Q206	8-729-216-22	TRANSISTOR 2SA1162	?-G	
D403 D405 D406 D407 D571	8-719-921-69 8-719-921-69 8-719-921-69 8-719-921-69	DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE MTZJ9.1 DIODE DA204K		Q207 Q209 Q210 Q303 Q304	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SA1162 TRANSISTOR DTC114E	K-QR K-QR -G	
D681 D683	8-719-921-75 8-719-914-44	DIODE MTZN-10B DIODE DAP202K		Q306 Q308 Q309 Q311	8-729-216-22 8-729-931-02 8-729-901-06	TRANSISTOR DTA144E	:-G :KQ :K	
	< IC	>		Q312	8-729-900-53	TRANSISTOR DTC114E	EK .	
IC072 IC201	8-759-184-27 8-759-073-30 (1) 8-759-073-31	DIODE MTZN-10B DIODE DAP202K IC ST24C16CB1 IC TDA6612 KV-X2971A,X2971B,X2971D, K2973E,X2971K) IC TDA6622 (KV-X2972U)		Q313 Q314 Q315 Q316 Q317	8-729-920-74 8-729-920-74 8-729-901-01	TRANSISTOR 2SA1162 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR DTC144E TRANSISTOR 2SC2412	K-QR K-QR K	
IC202 IC251 IC261	8-759-502-21 8-759-072-99 8-759-072-99	IC TDA2822M IC TDA2052 IC TDA2052		Q401 Q402 Q403 Q581	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412	K-QR K-QR K-QR	
IC301 IC302 IC304 IC401 IC402	8-759-189-90 8-759-084-91 8-752-056-54 8-752-068-46 8-759-073-00	IC TDA6622 (KV-X2972U) IC TDA2822M IC TDA2052 IC TDA2052 IC TDA9145/N2B IC TDA4661/V2 IC CXA1587S IC CXA1855S IC TEA2114 IC TDA8138A IC NJM78M09FA IC TEA7605 BLOCK > IF BLOCK (IFH-389) (KV-X2971D, X2973E, X2971K, X2971A) IF BLOCK (IFH-395) (KV-X2971D) IF BLOCK (IFH-389F) (KV-X2971B) IL >		Q582 Q583 Q610 Q681 Q682	8-729-140-97	TRANSISTOR 2SC2412 TRANSISTOR 2SB734- TRANSISTOR 2SD795A	R-QR 34 -P	
IC681 IC684 IC685	8-759-072-98 8-759-701-59 8-759-510-52	IC TDA8138A IC NJM78M09FA IC TEA7605		Q682	< RES	TRANSISTOR DTC114E	EK.	
	< IF	BLOCK >		JR102 JR104		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/10W
IFB101	1-466-733-11	IF BLOCK (IFH-389) (KV-X2971D, X2973E, X2971K,		JR107 JR109 JR110	1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5% 5%	1/10W 1/10W 1/10W
	1-466-734-11	X2971A) IF BLOCK (IFH-395)		JR111	1-216-295-00	METAL GLAZE 0	5%	1/10W
	1-466-735-11	(KV-X2972U) IF BLOCK (IFH-389F)		JR112 JR113	1-216-295-00		5% 5%	1/10W 1/10W
	< CO	(KV-X2971B)		JR114 JR115		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/10W
PIOI	1-412-546-41	INDUCTOR 5600H		JR116	1-216-295-00		5%	1/10W
L102 L201	1-408-413-00 1-407-500-00	INDUCTOR 22UH INDUCTOR 4.7MMH		JR117 JR118	1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/10W
L307 L309	1-408-405-00 1-408-411-00	INDUCTOR 4.7UH		JR119 JR120	1-216-295-00 1-216-295-00	METAL GLAZE 0	5% 5%	1/10W 1/10W
L575 L611 L681	1-408-397-00 1-412-539-41 1-412-539-41	INDUCTOR 150UH		JR121 JR122 JR123 JR125	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
	< IC	LINK >		JR126	1-216-295-00		5%	1/10W
PS681 1 PS682 1		LINK, IC 0.4A LINK, IC 0.4A		JR127 JR128 JR129	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5% 5%	1/10W 1/10W 1/10W
0074		ANSISTOR >		JR130 JR131	1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/10W
Q071 Q101 Q102 Q103 Q201	8-729-216-22 8-729-901-00 8-729-900-53	TRANSISTOR DTA124EK TRANSISTOR 2SA1162-G TRANSISTOR DTC124EK TRANSISTOR DTC114EK TRANSISTOR 2SC2412K-QR		JR132 JR133 JR134 JR135 JR136	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
Q202 Q203 Q204 Q205	8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		JR137 JR138 JR139	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5% 5%	1/10W 1/8W 1/10W

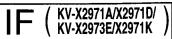


REF.NO.	PART NO.	DESCRIPTION	N_		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
JR140 JR141	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/10W	JR254 JR255	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0	5% 5%	1/8W 1/8W
JR142	1-216-295-00	METAL GLAZE	0	5%	1/10W	JR257	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR143	1-216-295-00	METAL GLAZE		5%	1/10W	JR272	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR144	1-216-295-00	METAL GLAZE	0	5%	1/10W						
JR146	1-216-295-00		0	5%	1/10W	R071	1-216-041-00	METAL GLAZE	470	5%	1/10W
JR149	1-216-295-00	METAL GLAZE	0	5%	1/10W	R072	1-216-033-00	METAL GLAZE	220	5%	1/10W
						R073	1-216-033-00		220	5%	1/10W
JR150	1-216-295-00	METAL GLAZE		5%	1/10W	R074	1-216-198-91		1K	5%	1/8W
JR151	1-216-295-00	METAL GLAZE	0	5%	1/10W	R076	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR152	1-216-295-00	METAL GLAZE	0	5%	1/10W	2000	1 016 005 00	10001 01100	100	F0.	1 /1 011
JR201	1-216-296-00	METAL GLAZE	0	5%	1/8W 1/8W	R077 R101	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W
JR202	1-216-296-00	METAL GLAZE	U	5%	1/04	R101	1-216-025-00	METAL GLAZE	1K	5%	1/10W 1/10W
JR203	1-216-296-00	METAL GLAZE	0	5%	1/8W	R102	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W 1/10W
JR204	1-216-296-00		0	5%	1/8W	R105	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR205	1-216-296-00		Ö	5%	1/8W	KIUJ	1 210 075 00	MDIMD OBMOD	1011	5.0	1/ 1011
JR206	1-216-296-00		Ŏ	5%	1/8W	R108	1-216-230-00	METAL GLAZE	22K	5%	1/8W
JR207	1-216-296-00	METAL GLAZE	Ö	5%	1/8W	R115	1-216-210-00		3.3K		1/8W
			•	•	_,	R201	1-216-653-11			0.50%	
JR208	1-216-296-00	METAL GLAZE	0	5%	1/8W	R202	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
JR209	1-216-296-00	METAL GLAZE	0	5%	1/8W	R203	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
JR210	1-216-296-00	METAL GLAZE	0	5%	1/8W						
JR211	1-216-296-00		0	5%	1/8W	R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W
JR212	1-216-296-00	METAL GLAZE	0	5%	1/8W	R205	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
						R206	1-216-071-00	METAL GLAZE	8.2K		1/1 OW
JR213	1-216-296-00		0	5%	1/8W	R207	1-216-057-00	METAL GLAZE	2.2K	5%	1/1 OW
JR214	1-216-296-00		0	5%	1/8W	R208	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR215	1-216-296-00		0	5%	1/8W	R209	1-249-377-11	CARBON	0.47	5%	1/4W F
JR216 JR217	1-216-296-00		0	5% 5%	1/8W 1/8W	R210	1-249-377-11		39	5% 5%	1/4W F 1/2W
UKZI/	1-216-296-00	METAL GLAZE	U	3%	1/0%	R210	1-247-734-11		39	5%	1/2W
JR218	1-216-296-00	METAL GLAZE	0	5%	1/8W	R211	1-216-049-00	METAL GLAZE	1K	5%	1/1 OW
JR219	1-216-296-00		ŏ	5%	1/8W	R213	1-216-073-00		10K	5%	1/1 OW
JR220	1-216-296-00		Ŏ	5%	1/8W					• •	
JR221	1-216-296-00		Ö	5%	1/8W	R214	1-216-049-00	METAL GLAZE	1K	5%	1/1 OW
JR222	1-216-296-00		0	5%	1/8W	R215	1-216-073-00	METAL GLAZE	10K	5%	1/1 OW
						R216	1-216-049-00		1K	5%	1/1 OW
JR223	1-216-296-00		0	5%	1/8W	R217	1-216-045-00	METAL GLAZE	680	5%	1/1 OW
JR224	1-216-296-00		0	5%	1/8W	R218	1-216-081-00	METAL GLAZE	22K	5%	1/1 OW
JR225	1-216-296-00		0	5%	1/8W						4.4
JR226	1-216-296-00		0	5%	1/8W	R221	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
JR227	1-216-296-00	METAL GLAZE	0	5%	1/8W	R222	1-216-049-00		1K	5%	1/1 OW
JR228	1 216 206 00	METAL GLAZE	٥	5%	1/8W	R223 R224	1-216-045-00 1-249-433-11		680 22K	5% 5%	1/1 OW 1/4 W
JR229	1-216-296-00 1-216-296-00		0	5%	1/8W	R225	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
JR230	1-216-296-00		0	5%	1/8W	RZZJ	1-212-049-00	LOSIDDE	4. /	2.0	7/41/1
JR231	1-216-296-00		0	5%	1/8W	R226	1-249-412-11	CARBON	390	5%	1/4 W
JR232	1-216-296-00		Õ	5%	1/8W	R227	1-216-081-00		22K	5%	1/1 OW
					_,	R228	1-216-081-00		22K	5%	1/1 OW
JR233	1-216-296-00	METAL GLAZE	0	5%	1/8W	R229	1-216-039-00		390	5%	1/1 OW
JR234	1-216-296-00	METAL GLAZE	0	5%	1/8W	R230	1-216-246-91	METAL GLAZE	100K	5%	1/8 W
JR235	1-216-296-00		0	5%	1/8W						
JR236		METAL GLAZE	0	5%	1/8W	R231	1-216-097-00		100K		1/1 OW
JR237	1-216-296-00	METAL GLAZE	0	5%	1/8W	R232	1-216-081-00		22K	5%	1/1 OW
-maaa	4 444 444 44			=^	4 /0	R233	1-216-071-00		8.2K		1/1 OW
JR238	1-216-296-00		0	5%	1/8W	R234	1-216-077-00		15K	5%	1/1 OW
JR239 JR240	1-216-296-00		0	5%	1/8W	R235	1-216-073-00	METAL GLAZE	10K	5%	1/1 OW
JR241	1-216-296-00		0	5% 5%	1/8W 1/8W	R236	1-216-081-00	METAL GLAZE	22K	5%	1/1 OW
JR242	1-216-296-00 1-216-296-00		0	5%	1/8W	R237	1-216-025-00		100	5%	1/1 OW
V-10 44	± 210-250-00	WEIVD GRAVE	v	0 د	1/011	R237	1-216-025-00		100	5%	1/1 OW
JR243	1-216-295-00	METAL GLAZE	0	5%	1/10W	R241	1-216-065-00		4.7K		1/1 OW
JR245	1-216-296-00		Ö	5%	1/8W	R242	1-216-214-00		4.7K		1/8 W
JR247	1-216-296-00		Ö	5%	1/8W		, ,		• • • •		- -
JR248	1-216-296-00		Ŏ	5%	1/8W	R244	1-216-069-00	METAL GLAZE	6.8K	5%	1/1 OW
JR250	1-216-296-00		Ō	5%	1/8W	R245	1-216-089-91	METAL GLAZE	47K	5%	1/1 OW
						R246	1-216-097-00		100K		1/1 OW
JR251	1-216-296-00		0	5%	1/8W	R247	1-216-073-00		10K	5%	1/1 OW
JR252	4	METAL GLAZE	0	5%	1/8W	R248	1-216-073-00	METAL GLAZE	10K	5%	1/1 OW
JR253	1-216-296-00	METAL GLAZE	0	5%	1/8W						



REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTI	ON		REMARK
R249 R250 R251 R252 R253	1-216-045-00 1-216-095-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE	680 82K 4.7K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R359 R360 R361 R362 R366	1-216-033-00 1-216-033-00 1-216-033-00 1-216-077-00 1-216-236-11	METAL GLAZE METAL GLAZE	220 220 220 15K 39K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W
R254 R255 R256 R257 R258	1-216-252-00 1-216-252-00 1-249-409-11 1-249-409-11 1-216-089-91	CARBON	180K 180K 220 220 47K	5% 5% 5% 5% 5%	1/8W 1/8W 1/4W 1/4W 1/10W	R376 R377 R378 R379 R380	1-216-065-00 1-216-051-00 1-216-057-00 1-216-206-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1.2K 2.2K 2.2K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W
R259 R260 R301 R302 R303	1-216-063-00 1-216-212-00 1-216-041-00 1-216-041-00 1-216-174-00		3.9K 3.9K 470 470 100	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/8W	R381 R382 R383 R385 R386	1-216-164-00 1-216-164-00 1-216-164-00 1-216-085-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39 39 39 33K 10K	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/10W 1/10W
R304 R305 R306 R307 R308	1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00 1-216-121-00	METAL GLAZE	100 270 270 12K 1M	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R387 R388 R389 R390 R391	1-216-065-00 1-216-073-00 1-216-071-00 1-216-083-00 1-216-069-00	METAL GLAZE	4.7K 10K 8.2K 27K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R309 R310 R311 R312 R313	1-216-001-00 1-216-001-00 1-216-065-00 1-249-413-11 1-216-081-00	METAL GLAZE METAL GLAZE	10 10 4.7K 470 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W	R392 R393 R394 R395 R396	1-216-061-00 1-216-073-00 1-216-081-00 1-216-097-00 1-216-081-00		3.3K 10K 22K 100K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R314 R315 R316 R318 R319	1-249-409-11 1-249-409-11 1-216-085-00 1-216-041-00 1-249-413-11	CARBON METAL GLAZE	220 220 33K 470 470	5% 5% 5% 5% 5%	1/4W 1/4W 1/10W 1/10W 1/4W	R401 R402 R403 R404 R405	1-216-171-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 22 100 22 100	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W 1/10W
R322 R323 R324 R325 R328	1-216-041-00 1-216-295-00 1-216-049-00 1-216-041-00 1-216-025-00	METAL GLAZE	470 0 1K 470 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R406 R407 R408 R410 R411	1-216-158-00 1-216-025-00 1-216-093-00 1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 100 68K 5.6K 5.6K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
R329 R330 R331 R332 R333	1-216-023-00 1-216-053-00 1-216-097-00 1-216-182-91 1-216-182-91	METAL GLAZE METAL GLAZE METAL GLAZE	82 1.5K 100K 220 220	5% 5%	1/10W 1/10W 1/10W 1/8W 1/8W	R412 R413 R414 R416 R417	1-216-022-00 1-216-022-00 1-216-022-00 1-216-113-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 75 75 470K 5.6K		1/10W 1/10W 1/10W 1/10W 1/10W
R334 R336 R337 R338 R339	1-216-182-91 1-216-029-00 1-216-041-00 1-216-035-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 150 470 270 100	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R419 R420 R424 R425 R428	1-216-113-00 1-216-067-00 1-216-025-00 1-216-025-00 1-249-393-11	METAL GLAZE METAL GLAZE	470K 5.6K 100 100		1/10W 1/10W 1/10W 1/10W 1/4W F
R340 R341 R342 R343 R344	1-216-025-00 1-216-025-00 1-216-033-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 220 75 75	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R574 R575 R577 R578 R580	1-216-041-00 1-216-186-00 1-216-089-91 1-216-238-91 1-216-049-00	METAL GLAZE	470 330 47K 47K 1K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W 1/10W
R345 R346 R347 R351 R352	1-216-171-00 1-216-022-00 1-216-083-00 1-216-073-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 75 27K 10K 220	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R581 R582 R583 R584 R585	1-216-033-00 1-216-037-00 1-216-053-00 1-216-039-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 330 1.5K 390 5.6K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R354 R355 R356 R357 R358	1-216-033-00 1-216-033-00 1-216-033-00 1-216-041-00 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 470 180	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R586 R587 R588 R589 R590	1-216-047-00 1-216-047-00 1-216-101-00 1-216-073-00 1-216-049-00		820 820 150K 10K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W





					L <u></u> _			
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R591 R592 R593 R594 R595	1-216-073-00 1-216-232-00 1-216-071-00 1-216-061-00 1-216-643-11	METAL GLAZE 27K 5% METAL GLAZE 8.2K 5% METAL GLAZE 3.3K 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C154 C155 C156 C161 C162	1-164-337-11 1-164-232-11 1-124-477-11 1-164-117-00 1-164-222-11	ELECT 47MF CERAMIC CHIP 100PF	10% 20% 5%	16V 50V 16V 50V 25V
R596 R597 R598 R600 R616	1-216-067-00 1-216-230-00 1-216-053-00 1-216-174-00 1-216-184-00	METAL GLAZE 22K 5% METAL GLAZE 1.5K 5% METAL GLAZE 100 5%	1/10W 1/8W 1/10W 1/8W 1/8W	C163 C164 C165 C166 C167		ELECT 47MF	5% 10% 20% 5%	16V 50V 50V 16V 50V
R619 R628 R632 R681 R682	1-216-077-00 1-249-413-11 1-216-065-00 1-216-541-00 1-249-415-11	CARBON 470 5% METAL GLAZE 4.7K 5% METAL OXIDE 4.3 5%	1/10W 1/4W 1/10W 3W F 1/4W	C168 C170 C171 C173	1-124-477-11 1-124-477-11 1-124-477-11	ELECT 47MF ELECT 47MF	20% 20% 20%	16V 16V 16V 16V
DC02	1 016 073 00	MOMENT OF ACTS 107 EQ.	1 /1 07/7		< F11	TER >		
R683 R2219 R2220 R2221 R2222	1-216-073-00 1-216-174-00 1-216-174-00 1-216-174-00 1-216-174-00	METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 100 5%	1/10W 1/8W 1/8W 1/8W 1/8W	CF2 CF3 CF4 SWF1	1-527-840-00 1-567-570-00	FILTER, CERAMIC FILTER, CERAMIC FILTER, CERAMIC FILTER, SAWTOOTH WAVE		
	< TU	NER >			< CON	INECTOR >		
TU101	1-693-185-11	TUNER (UV-916H) (KV-X2971A,X2971B,X2971 X2973E,X2971K)	D,	CN1 CN2		PIN, CONNECTOR (PC BOAD PIN, CONNECTOR (PC BOAD		
	1-693-184-11	TUNER (U944C)			< TRI	MMER >		
	< CR	(KV-X2972U) YSTAL >		CT1	1-404-801-11	TRAP, CERAMIC		
X301		OSCILLATOR, CRYSTAL			< DIC	DE >		
X302		OSCILLATOR, CRYSTAL		D161	8-719-400-18	DIODE MA152WK		
******		* * * * * * * * * * * * * * * * * * * *	*****		< IC	>		
			971A, X2971D, K, X2973E)	IC1 IC2	8-759-070-76 8-759-070-71	IC TDA9820		
	< CA	PACITOR >		IC3	8-759-514-54	IC BA/046		
C101	1-163-121-00	CERAMIC CHIP 150PF	5% 50V		< COI	L >		
C102		CERAMIC CHIP 0.22MF	25V	T 1 01	1 400 401 00	TAIDIIGMOD 100III		
C103 C104	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01F	10% 50V 10% 50V	L101 L102	1-408-421-00 1-408-419-00			
C105		CERAMIC CHIP 0.1MF	10% 25V	L103	1-408-419-00			
-444	_			L104	1-408-408-00			
C106 C107	1-124-477-11	ELECT 47MF CERAMIC CHIP 0.1MF	20% 16V 10% 25V	L121	1-408-413-00	INDUCTOR 22UH		
C108		CERAMIC CHIP 0.1MF	10% 25V	L122	1-408-420-00	INDUCTOR 82UH		
C109			10% 50V	L142	1-408-790-00			
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L151 L161	1-408-419-00 1-408-419-00			
C113	1-164-101-00	CERAMIC CHIP 22PF	5% 50V	2202	1 100 12, 00			
C114 C115	1-124-477-11		20% 16V		< TRA	NSISTOR >		
C115		CERAMIC CHIP 0.01F CERAMIC CHIP 1MF	10% 50V 16V	Q101	8-729-920-74	TRANSISTOR 2SC2412K-OR		
C118		CERAMIC CHIP 0.1MF	10% 25V	Q102	8-729-216-22	TRANSISTOR 2SA1162-G		
C119	1 160 260 11	CERNATO CUID ATREE	5% 25V	Q121 Q122	8-729-920-74 8-729-216-22			
C121		CERAMIC CHIP 47PFF CERAMOC CHIP 22PF	5% 25V 5% 50V	Q122 Q161	8-729-216-22			
C122	1-164-239-11	CERAMIC CHIP 33PF	5% 50V	_				
C123 C124		CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF	5% 50V 10% 25V	Q170 Q171		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		
	T-104-004-11	CERRMIC CHIF U.IMF	10.0 Q7A	Q171 Q172		TRANSISTOR 2SC2412K-QR		
C130		METAL GLAZE 0 5%	1/10W	Q173	8-729-920-74	TRANSISTOR 2SC2412K-QR		
C131 C133	1-163-093-00 1-124-477-11	CERAMIC CHIP 10PF ELECT 47MF	5% 50V 20% 16V		∠ RES	ISTOR >		
C152		CERAMIC CHIP 2.2MF	16V		(NED	-D-VII /		
C153		CERAMIC CHIP 2.2MF	16V	JR2	1-216-295-00	METAL GLAZE 0 5%	1/1	W

L												
REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPT	ION			REMARK
JR3	1-216-296-00		0	5%	1/8W	R162	1-216-073-00	METAL GLAZE	10K	5%	1/10	W
JR4	1-216-295-00	METAL GLAZE	0	5%	1/10W							
JR7	1-216-295-00	METAL GLAZE	0	5%	1/10W	R163	1-216-113-00	METAL GLAZE	470K	5%	1/10	
JR8	1-216-295-00	METAL GLAZE	0	5%	1/10W	R164 R165	1-216-113-00 1-216-081-00	METAL GLAZE	470K	5%	1/10	
JR9	1-216-296-00	METAL GLAZE	0	5%	1/8W	R166	1-216-049-00	METAL GLAZE METAL GLAZE	22K 1K	5% E%	1/10	
JR11	1-216-296-00		0	5%	1/8W	R167	1-216-073-00	METAL GLAZE	10K	5% 5%	1/10 1/10	
JR14		METAL GLAZE	ŏ	5%	1/8W	KIO7	1-210-0/5-00	MEIND GUNZE	TOK	J10	1/10	N
JR16	1-216-295-00		ŏ	5%	1/10W	R168	1-216-113-00	METAL GLAZE	470K	5%	1/10	W
JR18	1-216-295-00		Ō	5%	1/10W	R169	1-216-049-00	METAL GLAZE	1K	5%	1/10	
						R170	1-216-083-00		27K	5%	1/10	
JR19	1-216-296-00		. 0	5%	1/8W	R171	1-216-075-00		12K	5%	1/10	W
JR20	1-216-296-00	METAL GLAZE	0	5%	1/8W	R172	1-216-095-00	METAL GLAZE	82K	5%	1/10	Ñ
JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W	-450						
JR23	1-216-296-00	METAL GLAZE	0	5%	1/8W	R173	1-216-059-00		2.7K	5%	1/10	
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W	R174	1-216-057-00		2.2K	5%	1/10	
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W	R175 R176	1-216-083-00 1-216-075-00		27K	5%	1/10	
JR29	1-216-296-00		0	5%	1/8W	R177	1-216-075-00		12K 82K	5% 5%	1/100 1/100	
JR30	1-216-295-00		ŏ	5%	1/10W	KI//	1-210-055-00	MEIND GHANE	021	7%	1/10	Ŋ
JR33	1-216-295-00		ŏ	5%	1/10W	R178	1-216-059-00	METAL GLAZE	2.7K	5%	1/10	N.
JR38	1-216-296-00		Ö	5%	1/8W	R179	1-216-057-00		2.2K	5%	1/10	
						R180	1-216-037-00		330	5%	1/10	
JR39	1-216-296-00	METAL GLAZE	0	5%	1/8W	R181	1-216-037-00		330	5%	1/10	
JR40	1-216-296-00	METAL GLAZE	0	5%	1/8							
							< VAR	RIABLE RESISTO)R >			
R101	1-216-075-00		12K	5%	1/10W							
R102	1-216-073-00		10K	5%	1/10W	RV1	1-241-121-11	RES, ADJ, CA	RBON 4.7	K		
R103	1-216-057-00		2.2K	5%	1/10W		MD.					
R104 R106	1-216-051-00 1-216-049-00	METAL GLAZE METAL GLAZE	1.2K 1K	5% 5%	1/10W 1/10W		< TRA	INSFORMER >				
KIOO	1-210-049-00	METAL GLAZE	IV	2%	1/10W	Т4	1-416-017-21	COTI				
R107	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	T5	1-416-017-21					
R108	1-216-065-00		4.7K		1/10W	13	1 410 010 21	COIL				
R110	1-216-041-00		470	5%	1/10W	******	*******	******	******	****	*****	*****
R113	1-216-031-00	METAL GLAZE	180	5%	1/10W							
R114	1-216-049-00	METAL GLAZE	1K	5%	1/10W		1-466-734-11	IF BLOCK (IF	'H-395) (KV-X	(2972U)	
								******	*****			
R115	1-216-027-00	METAL GLAZE	120	5%	1/10W							
R116 R117	1-216-101-00		150K		1/10W		< CAP	ACITOR >				
R117	1-216-097-00 1-216-117-00	METAL GLAZE METAL GLAZE	100K 680K	5% 5%	1/10W 1/10W	C101	1 162 220 11	GEDANTO OUT	1255		го.	F 037
R119	1-216-240-00	METAL GLAZE	56K	5%	1/10W 1/8W	C101	1-163-239-11 1-164-222-11				5%	50V 25V
	2 220 210 00	METRIC GEREE	3010	3.0	1,011	C103	1-164-232-11				10%	50V
R120	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C104	1-164-232-11				10%	50V
R121	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C105	1-164-004-11				10%	25V
R122	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W							
R123	1-216-075-00		12K	5%	1/10W	C106	1-124-477-11		47MF		20%	16V
R124	1-216-041-00	METAL GLAZE	470	5%	1/10W	C107	1-164-004-11				10%	25V
R125	1 016 044 00		480	F0	4 /4 0	C108	1-164-004-11				10%	25V
R125	1-216-041-00		470	5%	1/10W	C109	1-164-232-11				10%	50V
R130	1-216-047-00 1-216-049-00		820 1K	5% 5%	1/10W 1/10W	C112	1-164-004-11	CERAMIC CHIP	O.IMF.		10%	25V
R131	1-216-025-00		100	5%	1/10W 1/10W	C113	1-164-101-00	CEDANTO CUTD	ววทธ		5%	50V
R132	1-216-069-00		6.8K		1/10W	C114	1-124-477-11		47MF		20%	16V
			*****	• •	2, 2011	C115	1-164-232-11				10%	50V
R133	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	C116	1-164-346-11					16V
R134	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C118	1-164-004-11				10%	25V
R135	1-216-198-00		1K	5%	1/8W							
R150	1-216-043-00		560	5%	1/10W	C119	1-163-369-11				5%	25V
R151	1-216-043-00	METAL GLAZE	560	5%	1/10W	C122	1-163-093-11				5%	50V
R152	1 016 040 00	VDB11 01100	F.C.0	F0.	1 /1 0**	C130	1-216-295-00		_0_	5%	1/1	
R152	1-216-043-00		560	5%	1/10W	C131	1-163-224-11				0.25PF	
R154	1-216-025-00 1-216-049-00		100 1K	5% 5%	1/10W 1/10W	C133	1-124-477-11	ELECT	47MF		20%	16V
R155	1-216-051-00		1.2K		1/10W 1/10W	C161	1-164-117-00	CEDAMIC CUID	10000		5%	5017
R156	1-216-083-00		27K	5%	1/10W	C161	1-164-222-11				J*0	50V 25V
	000 00		,		-,,	C163	1-164-346-11					16V
R157	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	C164	1-163-141-00				5%	50V
R159	1-216-107-00	METAL GLAZE	270K		1/10W	C165	1-164-232-11				10%	50V
R160	1-216-049-00	METAL GLAZE	1K	5%	1/10W							
R161	1-216-755-11	METAL CHIP	130K	0.50%	1/10W	C166	1-124-477-11	ELECT	47MF		20%	16V

REF.NO.	PART NO.	DESCRIPTION	ON	REM	MARK	REF.NO.	PART NO.	DESCRIPTION	1			REMARK
C167		CERAMIC CHIP		5% 50		JR20	1-216-296-00		0	5%	1/8W	
C168 C170	1-164-346-11	CERAMIC CHIP	1MF 47MF	16 20% 16		JR21 JR23	1-216-296-00 1-216-296-00	METAL GLAZE	0	5% 5%	1/8W 1/8W	
C170	1-124-477-11		47MF	20% 16		JR24	1-216-296-00		0	5%	1/8W	
						JR25	1-216-296-00		0	5%	1/8W	
C173	1-124-477-11	ELECT	47MF	20% 16	١٧	JR29	1-216-296-00	METAL GLAZE	0	5%	1/8W	
	< FII	LTER >				JR30	1-216-295-00	METAL GLAZE	Ö	5%	1/10W	
	4 550 455 04					JR33	1-216-295-00		0	5%	1/10W	
CD1 CF1		DISCRIMINATO FILTER, CERA				JR38 JR39	1-216-296-00 1-216-296-00		0	5% 5%	1/8W 1/8W	
SWF1		FILTER, SAWT				UNJJ	1-210-230-00	METAD GDADD	U	J.0	1/011	
		•				JR40	1-216-296-00	METAL GLAZE	0	5%	1/8W	
	< C01	NNECTOR >				JR41 JR42	1-216-295-00 1-216-295-00		0	5% 5%	1/10W 1/10W	
CN1	1-750-173-11	PIN, CONNECT	OR (PC BOARI	n) 10P		JR101	1-216-295-00		0	5%	1/10W	
CN2		PIN, CONNECT							•	• •	-,	
					į	R101	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
	< TR	IMMER >				R102 R103	1-216-045-00 1-216-057-00		680 2.2K	5% 5%	1/10W 1/10W	
CT1	1-409-333-00	TRAP, CERAMI	C (6.0MHZ)			R103	1-216-057-00		1.2K		1/10W	
011	1 103 333 00	IIdii / Chidhii	(01011112)			R105	1-216-043-00		560	5%	1/10W	
	< DI	ODE >				5106	1 016 040 00	100m11 011PD	1 ***	FO.	1 (4 0%	
D161	9-719-400-19	DIODE MA152W	πĸ			R106 R107	1-216-049-00 1-216-065-00		1K 4.7K	5% 5%	1/10W 1/10W	
DIVI	0 /15-400 10	DIODE MAISEN	111			R108	1-216-065-00		4.7K		1/1 OW	
	< IC	>				R110	1-216-041-00	METAL GLAZE	470	5%	1/10W	
	0 750 050 56					R112	1-216-045-00	METAL GLAZE	680	5%	1/1 OW	
IC1 IC3	8-759-514-54	IC M52308SP				R113	1-216-031-00	METAL GLAZE	180	5%	1/1 OW	
-00	0 703 311 31	10 311,010				R114	1-216-049-00	METAL GLAZE	1K	5%	1/1 OW	
	< CO	IL >				R115	1-216-031-00		180	5%	1/1 OW	
T 1 0 1	1 400 414 00	TAIDIIGHOD	27UH			R116 R117	1-216-101-00 1-216-097-00		150K 100K	5% 5%	1/1 OW 1/1 OW	
L101 L102	1-408-414-00 1-408-419-00		68UH			KII!	1-210-057-00	MEIAL GLAZE	IUUK	3%	1/1 08	
L103	1-408-419-00		68UH			R118	1-216-117-00		680K		1/1 OW	
L104	1-408-406-00		5.6UH			R119	1-216-240-00		56K	5%	1/8W	
L105	1-408-410-00	INDUCTOR	12UH			R120 R121	1-216-075-00 1-216-053-00		12K 1.5K	5% 5%	1/1 OW 1/1 OW	
L142	1-408-790-41	TNDUCTOR	0.56UH			R121	1-216-053-00		3.3K		1/1 OW	
L161	1-408-419-00		68UH									
		. Watanon				R123	1-216-061-00	METAL GLAZE	3.3K		1/1 OW	
	< TR	ANSISTOR >				R130 R131	1-216-049-00 1-216-025-00		1K 100	5% 5%	1/1 OW 1/1 OW	
Q101	8-729-920-74	TRANSISTOR 2	2SC2412K-QR			R132	1-216-069-00		6.8K		1/1 OW	
Q102		TRANSISTOR 2				R133	1-216-061-00		3.3K	5%	1/1 OW	1
Q122 Q161		TRANSISTOR 2	2SA1162-G			R134	1-216-049-00	METAL GLAZE	1K	5%	1/1 OW	r
Q172	8-729-216-22 8-729-920-74					R135	1-216-049-00		1K	5%	1/8 W	
x	0 723 320 72		2			R153	1-216-025-00	METAL GLAZE	100	5%	1/1 OW	
Q173	8-729-920-74	TRANSISTOR 2	2SC2412K-QR			R159	1-216-107-00		270K		1/1 OW	
	∠ RF	SISTOR >				R160	1-216-049-00	METAL GLAZE	1K	5%	1/1 O W	l
						R161	1-216-755-11			0.50%		
JR1		METAL GLAZE	0 5%	1/8W		R162	1-216-073-00		10K	5%	1/1 OW	
JR2 JR3		METAL GLAZE	0 5%	1/10W		R163 R164	1-216-113-00 1-216-113-00		470K 470K		1/1 OW 1/1 OW	
JR4	1-216-296-00) METAL GLAZE) METAL GLAZE	0 5% 0 5%	1/8W 1/10W		R165	1-216-113-00		22K	5% 5%	1/1 ON	
JR7	1-216-295-00		0 5%	1/10W						- 0		
TDO	1 046 005 00			1 /1 0**		R166	1-216-049-00		1K	5%	1/1 OV 1/1 OV	
JR8 JR9	1-216-295-00 1-216-296-00		0 5% 0 5%	1/10W 1/8W		R167 R168	1-216-073-00 1-216-113-00		10K 470K	5% 5%	1/1 OV	
JR10	1-216-296-00			1/8W		R169	1-216-049-00		1K	5%	1/1 0	Ī
JR11	1-216-296-00	METAL GLAZE	0 5%	1/8W		R175	1-216-083-00		27K	5%	1/1 0	
JR12	1-216-296-00) METAL GLAZE	.0 5%	1/8W		D176	1_016 075 00	MDMAT OTAGO	100	Eo	1/1 O V	,
JR13	1-163-003-00	CERAMIC CHI	P 10PF	5% 50V		R176 R177	1-216-075-00 1-216-095-00		12K 82K	5% 5%	1/1 OV	
JR14) METAL GLAZE		1/8W		R178	1-216-059-00		2.7K		1/1 OV	
JR16	1-216-295-00) METAL GLAZE	0 5%	1/10W		R179	1-216-057-00	METAL GLAZE	2.2K	5%	1/1 OV	
JR18 JR19		METAL GLAZE		1/10W		R181	1-216-037-00	METAL GLAZE	330	5%	1/1 O V	i
OKIA	1-216-296-00) METAL GLAZE	0 5%	1/8W								

IF (KV-X2972U)	IF (KV-X2971B)
-----------------------	-----------------------

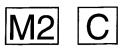
REF.NO.	PART NO.	DESCRIPTION	DN		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
	< VAI	RIABLE RESISTO	R >			C105 C106		CERAMIC CHIP		10% 10%	50V 50V
RV1	1-241-121-11	RES, ADJ, CAI	RBON 4.7K								
m4		NSFORMER >				C119 C121 C122	1-126-176-11 1-163-119-00	CERAMIC CHIP	220MF 120PF	5% 20% 5%	25V 10V 50V
Т4 Т5	1-416-017-21 1-416-018-21					C131	1-126-099-11	ELECT	2.2MF	20%	35V
******	*******	*******	******	*****	*****		< FII	TER >			
	1-466-735-11	IF BLOCK (IF	I-389F) (KV	-x2971B)	CF1 CF2 CF3	1-567-569-11	FILTER, CERA FILTER, CERA FILTER, CERA	MIC		
	< CAL	ACITOR >				CF4 SWF1	1-567-570-11	FILTER, CERAL FILTER, SURF	MIC		
C1 C2	1-164-232-11	CERAMIC CHIP	0.0047MF 0.01MF	10% 10%	50V 50V	SWF3 SWF4	1-404-711-11 1-579-660-11	SAWF FILTER, SAWT	OOTH WAVE		
C3 C4	1-124-903-11 1-164-232-11	ELECT CERAMIC CHIP	1MF 0.01MF	20% 10%	50V 50V		< COM	NECTOR >			
C5		CERAMIC CHIP		10%	50V	CN1		PIN, CONNECTO	חם (שת שתאם שת	10b	
C6 C7	1-164-232-11	CERAMIC CHIP	0.01MF	10% 10%	50V 50V	CN2	1-750-173-11	PIN, CONNECTO			
C8	1-124-916-11		22MF	10% 20%	50V 25V		< TR1	MMER >			
C10 C11 C13	1-124-477-11 1-163-059-00	CERAMIC CHIP	47MF 0.01MF	10% 20% 10%	50V 16V 50V	CT1 CT2 CV1 CV1	1-409-429-11 1-141-245-00 1-141-245-00	TRAP, CERAMIC TRAP, CERAMIC CAP, TRIMMER CAP, TRIMMER	C		
C14 C15	1-124-477-11 1-124-903-11		47MF 1MF	20% 20%	16V 50V	CA3	1-141-304-21	TRIMMER, CERA	AMIC		
C16	1-163-061-00	CERAMIC CHIP	0.015MF	10%	50V		< DIC	DE >			
C17 C18 C19 C20	1-162-638-11 1-163-141-00 1-124-902-00		1MF 0.001MF 0.47MF	5% 20%	16V 16V 50V 50V	D7 D8 D9	8-719-421-57	DIODE MA73-TX DIODE MA73-TX DIODE MA73-TX	X		
C21	1-124-903-11	ELECT	1MF	20%	50 V		< IC	>			
C22 C23 C24 C25 C26	1-124-902-00 1-164-506-11 1-124-477-11	CERAMIC CHIP	0.47MF 4.7MF 47MF	10% 20% 20% 10%	50V 50V 16V 16V 50V	IC1 IC2 IC3	8-759-070-75 8-759-070-71 8-759-979-62	IC TDA9820 IC PCF8574			
							< COI				
C27 C28 C33 C34 C35	1-164-232-11 1-124-477-11 1-124-907-11 1-124-907-11 1-124-925-11	ELECT ELECT	0.01MF 47MF 10MF 10MF 2.2MF	10% 20% 20% 20% 20%	50V 16V 50V 50V 50V	L1 L2 L3 L4 L5	1-408-419-00 1-408-419-00 1-408-407-00 1-408-419-00 1-408-419-00	INDUCTOR 6 INDUCTOR 6 INDUCTOR 6	58UH 58UH 5.8UH 58UH 58UH		
C36 C37 C38 C40 C71	1-163-017-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF	20% 10% 10% 10% 20%	16V 50V 50V 50V 16V	L7 L9 L71 L101 L121	1-408-406-00 1-408-419-00 1-408-419-00 1-408-399-00 1-408-407-00	INDUCTOR 6 INDUCTOR 6 INDUCTOR 1	5.6UH 58UH 58UH .5UH 5.8UH		
C72	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V		< TRA	NSISTOR >			
C80 C83 C84 C85	1-124-477-11 1-124-477-11 1-124-477-11 1-124-477-11	ELECT ELECT	47MF 47MF 47MF 47MF	20% 20% 20% 20%	16V 16V 16V 16V	Q1 Q4 Q5	8-729-920-74 8-729-115-10	TRANSISTOR BF TRANSISTOR 2S TRANSISTOR 2S	C2412K-QR K105A-10		
C86 C87 C91	1-124-477-11 1-124-477-11	ELECT	47MF 47MF	20% 20%	16V 16V	Q6 Q7	8-729-216-22	TRANSISTOR DT TRANSISTOR 2S	SA1162-G		
C95 C101	1-164-337-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	2.2MF	5% 10%	50V 16V 50V	Q8 Q10 Q11	8-729-920-74 8-729-920-74	TRANSISTOR 2S	C2412K-QR C2412K-QR		
C102 C104	1-163-017-00 1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF	10% 10%	50V 50V	Q12 Q13	8-729-920-74 8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S	C2412K-QR C2412K-QR		



REF.NO. PART NO. DESCRIPTION REMARK Q14 8-729-920-74 TRANSISTOR 2SC2412K-QR Q15 8-729-920-74 TRANSISTOR 2SC2412K-QR Q16 8-729-216-22 TRANSISTOR 2SA1162-G Q101 8-729-104-80 TRANSISTOR 2SC3355 TRANSISTOR 2SC3355	REF.NO. R76 R77 R81 R82 R83	PART NO. 1-216-025-00 1-216-174-00 1-216-095-00 1-216-121-00 1-216-025-00	DESCRIPTIO METAL GLAZE METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/8W	EMARK
Q15 8-729-920-74 TRANSISTOR 2SC2412K-QR Q16 8-729-216-22 TRANSISTOR 2SA1162-G Q101 8-729-104-80 TRANSISTOR 2SC3355	R77 R81 R82 R83	1-216-174-00 1-216-095-00 1-216-121-00	METAL GLAZE				
Q121 8-729-920-74 TRANSISTOR 2SC2412K-QR		1 210 025 00	METAL GLAZE METAL GLAZE	82K 1M 100	5% 5% 5%	1/10W 1/10W 1/10W	
< RESISTOR >	R85	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
JR2 1-216-295-00 METAL GLAZE 0 5% 1/10W JR3 1-216-296-00 METAL GLAZE 0 5% 1/8W JR5 1-216-296-00 METAL GLAZE 0 5% 1/8W	R86 R87 R88	1-216-085-00 1-216-689-00 1-216-095-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 39K 82K 82K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R1 1-216-025-00 METAL GLAZE 100 5% 1/10W R2 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R3 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R4 1-216-041-00 METAL GLAZE 470 5% 1/10W R5 1-216-021-00 METAL GLAZE 68 5% 1/10W	R89 R90 R91 R92 R93	1-216-095-00 1-216-075-00 1-216-295-00 1-216-075-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 12K 0 12K 12K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R6 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W R8 1-216-051-00 METAL GLAZE 1.2K 5% 1/10W R9 1-216-069-00 METAL GLAZE 6.8K 5% 1/10W R10 1-216-071-00 METAL GLAZE 8.2K 5% 1/10W R11 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W	R94 R95 R96 R97 R98	1-216-059-00 1-216-059-00 1-216-059-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 2.7K 2.7K 2.2K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R24 1-216-280-00 METAL GLAZE 2.7M 5% 1/8W R25 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R26 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W R27 1-216-266-00 METAL GLAZE 680K 5% 1/8W R28 1-216-075-00 METAL GLAZE 12K 5% 1/10W	R99 R100 R102 R103 R104	1-216-057-00 1-216-065-00 1-216-065-00 1-216-063-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 4.7K 4.7K 3.9K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R29 1-216-035-00 METAL GLAZE 270 5% 1/10W R30 1-216-049-00 METAL GLAZE IK 5% 1/10W R31 1-216-017-00 METAL GLAZE 47 5% 1/10W R32 1-216-043-00 METAL GLAZE 560 5% 1/10W R33 1-216-037-00 METAL GLAZE 330 5% 1/10W	R105 R121 R122 R123 R124	1-216-033-00 1-216-073-00 1-216-065-00 1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 10K 4.7K 470 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R34 1-216-252-00 METAL GLAZE 180K 5% 1/8W R35 1-216-035-00 METAL GLAZE 270 5% 1/10W R36 1-216-029-00 METAL GLAZE 150 5% 1/10W R37 1-216-049-00 METAL GLAZE 1K 5% 1/10W R38 1-216-099-00 METAL GLAZE 120K 5% 1/10W	R125 R301 R302 R303 R304	1-216-041-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1K 1K 330	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R39 1-216-089-00 METAL GLAZE 47K 5% 1/10W R40 1-216-049-00 METAL GLAZE 1K 5% 1/10W R42 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W R43 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W R44 1-216-027-00 METAL GLAZE 120 5% 1/10W	R305 R306 R307 R308	1-216-049-00 1-216-025-00 1-216-037-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 330 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R45 1-216-041-00 METAL GLAZE 470 5% 1/10W		< VAR	IABLE RESISTOR	>			
R46 1-216-031-00 METAL GLAZE 180 5% 1/10W R47 1-216-075-00 METAL GLAZE 12K 5% 1/10W R48 1-216-081-00 METAL GLAZE 22K 5% 1/10W R49 1-216-049-00 METAL GLAZE 1K 5% 1/10W	RV2		RES, ADJ, CAR.	BON 2.	2K		
R53 1-216-082-00 METAL GLAZE 24K 5% 1/10W R54 1-216-043-00 METAL GLAZE 560 5% 1/10W R55 1-216-043-00 METAL GLAZE 560 5% 1/10W R56 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R57 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W	T1 T3 T4 T5	1-404-806-21 1-416-012-11 1-416-012-11 1-402-720-11 < CRY	COIL	٠			
R58 1-216-041-00 METAL GLAZE 470 5% 1/10W	X1	1_579_6/8_21	VIBRATOR, CER	AMTC			
R59 1-216-043-00 METAL GLAZE 560 5% 1/10W			•				
R60 1-216-043-00 METAL GLAZE 560 5% 1/10W R61 1-216-295-00 METAL GLAZE 0 5% 1/10W R63 1-216-043-00 METAL GLAZE 560 5% 1/10W	*****	*****************************	**************************************	PLETE	*****	****	*****
R71 1-216-079-00 METAL GLAZE 18K 5% 1/10W		4	1.GTMOD				
R72 1-216-079-00 METAL GLAZE 18K 5% 1/10W R73 1-216-049-00 METAL GLAZE 1K 5% 1/10W		< CAP	ACITOR >		*		
R74 1-216-079-00 METAL GLAZE 18K 5% 1/10W R75 1-216-079-00 METAL GLAZE 18K 5% 1/10W	C001 C002 C003	1-163-117-00	CERAMIC CHIP : CERAMIC CHIP : CERAMIC CHIP :	100PF		5%	50V 50V 50V

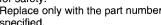


REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
C004 C007	1-164-222-11 1-163-117-00	CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF	5%	25V 50V	C2020 C2021		CERAMIC CHIP CERAMIC CHIP		5%	25V 50V
C008 C010 C011 C012 C014	1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 5% 5% 5%	50V 50V 50V 50V	C2023 C2024 C2025 C2027	1-163-117-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF	20% 5% 5%	50V 50V 50V 25V
		CERAMIC CHIP 100PF	5%	50V		< FI	LTER >			
C016 C017 C018		CERAMIC CHIP 0.001MF CERAMIC CHIP 0.22MF CERAMIC CHIP 2.2MF	5%	50V 25V 16V	CD001	1-579-126-11	VIBRATOR, CER	RAMIC		
C019 C020	1-124-916-11 1-163-117-00	ELECT 22MF	20% 5%	50V 50V		< CO	NNECTOR >			
C021 C022 C023 C024 C025	1-164-004-11 1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10%	25V 25V 25V 25V	CN1413 CN1426 CN1432 CN1435	*1-568-881-51 *1-568-882-51 *1-568-882-51	CONNECTOR, BO PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	OR 6P OR 7P	RD 40P	
		CERAMIC CHIP 0.22MF		25V			ODE >			
C026 C032 C035 C036 C037	1-163-117-00 1-163-033-00 1-164-005-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.47MF CERAMIC CHIP 100PF	5% 5%	25V 50V 50V 25V 50V	D001 D2001 D2002 D2003 D2007	8-719-036-58 8-719-401-31 8-719-914-44	DIODE MA3039H DIODE MA3030- DIODE MA3047I DIODE DAP202K DIODE DAP202K	-H(TX) TX K		
C039 C042		CERAMIC CHIP 0.0015MF CERAMIC CHIP 1MF	10%	50V		< IC	>			
C044 C522 C523	1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 0.001MF	5% 5% 5%	16V 50V 50V 50V	IC001 IC002	8-759-167-62	IC SDA30C162- IC TMS27PC010 SOCKET, PLCC	A-15FML		
C524 C525		CERAMIC CHIP 68PF CERAMIC CHIP 0.22MF	5%	50V 25V	IC561 IC562	8-752-347-92 8-759-998-98	IC CXD2018Q IC LM358D			
C528 C529 C541	1-163-105-00 1-163-169-00	CERAMIC CHIP 33PF	5% 5% 10%	50V 50V 50V	IC563 IC2003	8-759-708-05 8-759-188-60	IC NJM78L05A IC MB81C4256A	-70PSZG		
C542		CERAMIC CHIP 0.022MF	10%	25V		< CO	IT >			
C543 C544 C546 C547	1-164-161-11 1-164-161-11 1-164-004-11 1-163-020-00	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0082MF	10% 10% 10% 10%	50V 50V 25V 50V	L001 L561 L562 L563 L2001	1-408-421-00 1-408-409-00 1-408-409-00 1-408-947-00 1-410-674-31	INDUCTOR INDUCTOR INDUCTOR	100UH 10UH 10UH 2.2MMH 82UH		
C550	1-163-141-00	CERAMIC CHIP 0.033MF CERAMIC CHIP 0.001MF	10% 5%	25V 50V		< TRA	NSISTOR >			
C559 C560 C563	1-164-161-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.01MF	10% 10%	25V 50V 50V	Q002 Q003 Q564	8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2412K-QR		
C564 C565 C566	1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 50V 50V	Q565 Q566	8-729-920-74 8-729-920-74	TRANSISTOR 2S	C2412K-QR C2412K-QR		
C567 C568	1-163-009-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	10% 10%	50V 50V	Q567 Q2001 Q2002	8-729-920-74	TRANSISTOR DTG TRANSISTOR 2SG TRANSISTOR 2SG	C2412K-QR		
C569 C570 C2001 C2002	1-162-568-11 1-163-235-11	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.33MF CERAMIC CHIP 22PF	10% 10% 5%	50V 16V 50V	Q2003 Q2004	8-729-216-22 8-729-920-74	TRANSISTOR 25	A1162-G C2412K-QR		
C2004 C2005	1-164-222-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.22MF	5%	50V 25V	Q2005 Q2006 Q2008	8-729-901-01	TRANSISTOR 2SO TRANSISTOR DTO TRANSISTOR DTO	C144EK-T146		
C2006 C2008	1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF		25V 25V		< RES	ISTOR >			
C2009 C2016	1-163-105-00	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	5%	25V 50V 25V	JR552 JR553 JR555	1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE	0 5% 0 5% 0 5%	1/8W 1/10W 1/8W	
C2017 C2018 C2019		CERAMIC CHIP 0.22MF CERAMIC CHIP 2.2MF ELECT 22MF	20%	25V 16V 50V	R001 R002	1-216-025-00 1-216-025-00	METAL GLAZE	100 5% 100 5%	1/10W 1/10W	





REF.NO.	DADT NO	DECODIDATION	NI.		DEMARK	DEENA	DADTNO		L			
HEF.INU.	PART NO.	DESCRIPTION	N -		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
R003 R004 R005	1-216-049-00 1-216-049-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 0	5% 5% 5%	1/10W 1/10W 1/10W	R567 R568 R570	1-216-085-00 1-216-109-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 330K 1K	5% 5% 5%	1/10W 1/10W 1/10W	1
R006 R007 R008 R010 R011	1-216-049-00 1-216-073-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 1K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2001 R2002 R2003 R2004 R2005	1-216-065-00 1-216-043-00 1-216-065-00 1-216-037-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 560 4.7K 330 470	5%	1/10W 1/10W 1/10W 1/10W 1/10W	•
R012 R013 R014 R016 R017	1-216-049-00 1-216-049-00 1-216-049-00 1-216-045-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 680 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2007 R2008 R2009 R2010 R2011	1-216-073-00 1-216-025-00 1-216-057-00 1-216-025-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100 2.2K 100 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	•
R018 R019 R020 R021 R022	1-216-041-00 1-216-049-00 1-216-049-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2012 R2013 R2014 R2015 R2016	1-216-029-00 1-216-029-00 1-216-029-00 1-216-089-91 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 150 150 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	•
R023 R024 R025 R026 R027	1-216-025-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 1K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2017 R2018 R2019 R2020 R2021	1-216-081-00 1-216-081-00 1-216-081-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 22K 2.2K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R028 R030 R032 R033 R034	1-216-075-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 1K 1K 1K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2025 R2026 R2028 R2030 R2032	1-216-063-00 1-216-065-00 1-216-055-00 1-216-295-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R035 R038 R049 R050 R051	1-216-057-00 1-216-073-00 1-216-049-00 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 1K 10K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2033 R2035 R2036 R2037	1-216-295-00 1-216-075-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 12K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R052 R053 R054 R055 R067	1-216-073-00 1-216-065-00 1-216-081-00 1-216-081-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 4.7K 22K 22K 560	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	X2001		STAL > VIBRATOR, CRY		****	****	******
R068 R069 R070 R071	1-216-043-00 1-216-037-00 1-216-037-00 1-216-198-91	METAL GLAZE METAL GLAZE METAL GLAZE	330 330 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/8W			**************	LETE ****			
R535 R536 R538 R539 R541	1-216-057-00 1-216-057-00 1-216-025-00 1-216-657-11 1-216-049-00	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE	2.2K 2.2K 100 1.8K 1K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C701 C703 C705 C708 C709	1-162-114-00 1-123-946-00 1-162-116-00 1-163-197-00 1-163-005-11	ELECT			20% 10% 10% 10%	2KV 250V 2KV 50V 50V
R542 R544 R545 R546 R547 R551	1-216-025-00 1-216-085-00 1-216-033-00 1-216-061-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 220 3.3K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C710 C711 C712 C713 C714	1-101-880-00 1-163-121-00 1-163-121-00 1-163-121-00	CERAMIC CHIP : CERAMIC CHIP : CERAMIC CHIP :	47PF 150PF 150PF 150PF		10% 5% 5% 5% 5%	50V 50V 50V 50V 50V
	1-216-049-00		1K		1/10W	C716	1-124-478-11	ELECT	LOOMF		20%	25V
R552 R553 R559 R560 R564	1-216-097-00 1-216-085-00 1-216-049-00 1-216-073-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 1K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	CN0002 CN0403 CN0421			R 8P			
R565 R566	1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE	4.7K 10K		1/10W 1/10W							



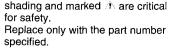


REF.NO.	PART NO.	DESCRIPTION	Ŋ		REMARK	REF.NO.	PART NO.	DESCRIPTIO)N			REMARK	
	< DIO	DE >				R720 R722	1-249-417-11 1-247-713-11		1K 1K	5% 5%	1/4W 1/4W		
D701 D702 D703 D704 D705	8-719-901-33 8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133			ļ	R724 R725 R726 R727 R728	1-249-417-11 1-216-067-00 1-216-067-00 1-216-067-00 1-216-037-00	METAL GLAZE METAL GLAZE	1K 5.6K 5.6K 5.6K 330	5%	1/4W 1/10W 1/10W 1/10W 1/10W		
D706 D707 D708 D709 D710	8-719-901-33 8-719-901-33	DIODE 1SS133				R729 R730 R731 R732 R733	1-216-037-00 1-216-037-00 1-216-017-00 1-216-017-00 1-216-017-00	METAL GLAZE METAL GLAZE	330 330 47 47 47	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		
D713	8-719-908-03					R734	1-202-549-00	SOLID	100	20%	1/2W		
J701 🛉	< JAC 1-526-990-21					R735 R738 R739	1-216-025-00	METAL GLAZE	1K 100 100	5% 5% 5%	1/10W 1/10W 1/10W		
	< COI	L >				R740	1-216-025-00	METAL GLAZE	100	5% 5%	1/10W 1/10W		
L701 L703 L705 L707	1-410-667-31 1-408-609-41 1-408-609-41 1-408-609-41	INDUCTOR INDUCTOR	22UH 33UH 33UH 33UH			R741 R742 R743 R747 R749	1-216-089-91 1-216-029-00 1-249-434-11 1-216-489-11 1-216-490-11	METAL GLAZE CARBON METAL OXIDE	47K 150 27K 27K 39K	5% 5% 5% 5%	1/10W 1/4W 3W 3W		
Q701	8-729-906-70	NSISTOR > TRANSISTOR BF				R751 R753 R758	1-215-926-00 1-216-073-00 1-249-419-11	METAL GLAZE CARBON	33K 10K 1.5K		3W 1/10W 1/4W	F	
Q702 Q703	8-729-906-70		871			R759 R760	1-249-419-11 1-249-419-11		1.5K 1.5K		1/4W 1/4W		
Q704 Q705	8-729-906-70 8-729-906-70	TRANSISTOR BF TRANSISTOR BF					< VAR	IABLE RESISTOR	₹ >				
Q706 Q707 Q708	8-729-906-70 8-729-200-17 8-729-200-17	TRANSISTOR BF TRANSISTOR 2S TRANSISTOR 2S	A1091-0			RV701 RV702	1-241-656-11	RES, ADJ, MET	TAL FIL	м 1101	M		
Q709 Q710	8-729-200-17 8-729-920-74	TRANSISTOR 2S				******	******			*****	******	*****	
Q711 Q712	8-729-920-74	TRANSISTOR 2S	C2412K-QR				*A-1640-109-A	******					
Q713 Q714		TRANSISTOR 2S TRANSISTOR 2S				C803		ACITOR > CERAMIC CHIP	0 0022	WD.	5%	50V	
	< RES	SISTOR >				C804 C806	1-136-161-00 1-124-907-11	FILM	0.0022 0.047M 10MF		5% 20%	50V 50V	
JR701 JR703	1-216-296-00 1-216-296-00		0 5% 0 5%			C807 C823	1-106-383-00 1-136-177-00	MYLAR	0.047M 1MF	F	10% 5%	100V 50V	
R701 R702 R703 R704 R705	1-202-848-00 1-202-838-00 1-202-838-00 1-202-842-11 1-216-398-11	SOLID SOLID SOLID	680K 10° 100K 20° 100K 20° 220K 10° 5.6 5%	% 1/2W % 1/2W % 1/2W	F	C827 C847 C852 C853 C857	1-136-177-00 1-164-337-11 1-164-299-11 1-124-477-11 1-124-902-00	CERAMIC CHIP CERAMIC CHIP ELECT	1MF 2.2MF 0.22MF 47MF 0.47MF		5% 10% 20% 20%	50V 16V 25V 25V 50V	
R706 R707 R708 R709 R710	1-216-398-11 1-249-421-11 1-249-421-11 1-249-421-11 1-215-899-11	CARBON CARBON CARBON	5.6 5% 2.2K 5% 2.2K 5% 2.2K 5% 15K 5%	1/4W 1/4W 1/4W	F F	C861 C866 C870 C871 C872	1-130-777-00 1-137-364-11 1-137-364-11 1-130-651-00 1-124-907-11	FILM FILM FILM	0.1MF 0.001M 0.001M 0.001M 10MF	F	5% 5% 5% 2% 20%	63V 50V 50V 100V 50V	
R711 R712	1-202-820-11 1-215-899-11		1.5K 20 15K 5%		F	C873	1-137-364-11	FILM	0.001M	F	5%	50V	
R713 R714 R715	1-215-899-11 1-202-820-11 1-215-899-11 1-202-820-11	SOLID METAL OXIDE	1.5K 20 15K 5% 1.5K 20	% 1/2W 2W	F	CN2044	< CON *1-573-299-11	NECTOR > CONNECTOR, BO	OARD TO	BOARI	D 10P		
R716	1-247-700-11		100 5%		F		< DIC	DE >					
R717 R718	1-247-807-31 1-247-700-11	CARBON	100 5% 100 5%	1/4W	F	D804		DIODE 1SS133					

)5	D
----	---



									U	<u> </u>	
REF.NO.	PART NO.	DESCRIPTIO	N	į	REMARK	REF.NO.	PART NO.	DESCRIPTION	DN -		REMARK
D808 D818	8-719-109-88 8-719-109-93	DIODE RD5.6ES DIODE RD6.2ES				C615	1-128-127-51	ELECT	2200MF	20%	25V
D821	8-719-914-44	DIODE DAP202K				C616	1-162-115-00	CERAMIC	330PF	10%	1KV
D827	8-719-982-96	DIODE MTZJ-T-	77-2.2A			C617 C618	1-162-116-00 1-162-134-11	CERAMIC CERAMIC	680PF 470PF	10% 10%	2KV 2KV
D830	8-710-014-44	DIODE DAP202K				C619	1-102-030-00	CERAMIC	330PF	10%	500V
D831		DIODE DAN202K				C620	1-164-299-11	CERAMIC CHIP		10%	25V
D832		DIODE DAP202K									
D833	8-719-914-44	DIODE DAP202K				C621	1-124-347-00	ELECT ELECT	100MF 2200MF	20% 20%	160V 16V
	< IC					C622 C623	1-128-320-11 1-102-030-00	CERAMIC	2200MF 330PF	20% 10%	500V
	(10	,				C624	1-126-800-51	ELECT	2200MF	20%	35V
IC802	8-759-103-93	IC UPC393C				C625	1-126-800-51	ELECT	2200MF	20%	35V
	< TRA	NSISTOR >			-	C627	1-136-553-11	FILM ELECT	0.0015MF 47MF	10% 20%	400V 25V
Q804	8-729-216-22	TRANSISTOR 2S	:x1162_C			C628 C629	1-124-477-11 1-124-907-11	ELECT	10MF	20% 20%	25V 50V
Q805	8-729-216-22	TRANSISTOR 25				C631	1-163-075-00			10%	25V
Q812 Q818	8-729-920-74 8-729-216-22	TRANSISTOR 29	C2412K-QR			C632	1-137-372-11	FILM	0.022MF	5%	50V
Q010	0 725 210 22	INDIDION 2	MIII 02 0			C633	1-164-299-11	CERAMIC CHIP		10%	25V
	< RES	SISTOR >				C636	1-130-777-00		0.1MF	5%	63V
TD 0 0 0	1 216 205 00	MDMAI OLAGO	0 5%	1/10W		C640 C645	1-124-916-11 1-128-571-11	ELECT ELECT	22MF 56MF	20% 20%	50V 50V
JR802 JR803	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5%	1/10W		C646	1-124-798-11		1MF	20%	160V
JR804	1-216-295-00	METAL GLAZE	0 5%	1/10W							
						C647	1-124-907-11		10MF	20%	50V
R802	1-216-077-00		15K 5% 15K 0.50%	1/10W 1/10W		C801 C805	1-137-116-11 1-124-902-00		1MF 0.47MF	5% 20%	200V 50V
R805 R806	1-216-679-11 1-216-061-00		3.3K 5%	1/10W		C808	1-162-114-00		0.0047MF	200	2KV
R808	1-216-085-00	METAL GLAZE	33K 5%	1/10W		C809	1-124-808-51	ELECT	10MF	20%	200V
R809	1-216-097-00	METAL GLAZE	100K 5%	1/10W		C810	1 162 001 11	CERAMIC CHIP	22000	10%	50V
R813	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W		C812	1-162-318-11		0.001MF	10%	500V
R814	1-216-091-00	METAL GLAZE	56K 5%	1/10W		C813	1-108-704-11		0.1MF	10%	200V
R815	1-216-081-00	METAL GLAZE	22K 5%	1/10W		C815	1-162-117-00	CERAMIC	100PF	10%	500V
R820 R824	1-216-097-00 1-216-675-11	METAL GLAZE METAL CHIP	100K 5% 10K 0.509	1/10₩ 1/10₩		C819	1-126-103-11	ELECT	470MF	20%	16V
K024	1-210-0/3-11	METAL CRIP	107 0.30	0 I/IVN		C821	1-137-063-11	FILM	0.018MF	3%	0
R828	1-216-121-00		1M 5%	1/10W		C822	1-162-116-00		680PF	10%	2KV
R829	1-249-429-11		10K 5%	1/4W % 1/10W		C824 C825	1-137-366-11 1-162-116-00	FILM CERAMIC	0.0022MF 680PF	5% 10%	50V 2KV
R830 R832	1-216-687-11 1-216-083-00	METAL CHIP METAL GLAZE	33K 0.509 27K 5%	6 1/10W 1/10W		C826	1-137-515-11	FILM	0.056MF	3%	400V
R834	1-216-079-00	METAL GLAZE	18K 5%	1/10W							
-005	4		0 0 50	4 /4 0**		C828	1-136-557-11		0.0033MF	10%	400V 250V
R835 R837	1-216-057-00 1-216-695-11	METAL GLAZE	2.2K 5% 68K 0.509	1/10W % 1/10W		C830 C831	1-136-189-00 1-123-932-00		0.1MF 4.7MF	5% 20%	160V
R838		METAL GLAZE	10K 5%	1/10W		C832	1-124-477-11		47MF	20%	25V
R846	1-216-671-11	METAL CHIP	6.8K 0.50			C833	1-136-126-00	FILM	0.82MF	5%	400V
R847	1-216-699-11	METAL CHIP	100K 0.509	% 1/10W	!	C834	1-137-114-11	PTIM	0.68MF	5%	200V
R867	1-216-113-00	METAL GLAZE	470K 5%	1/10W	İ	C835	1-124-480-11		470MF	20%	25V
R884	1-216-693-11			% 1/10W		C836	1-102-228-00		470PF	10%	500V
R891	1-216-079-00	METAL GLAZE	18K 5%	1/10W		C837	1-129-702-00		0.001MF	10ե 10ե	400V 200V
******	*******	******	******	*****	*****	C838	1-108-704-11		0.1MF		
	** 1610 000 3	n noann dow	DI EMB			C839 C840	1-123-950-00 1-124-480-11		47MF 470MF	20% 20%	250V 25V
	"A-1042-09/-A	D BOARD, COM				C841	1-102-228-00		470PF	10%	500v
						C842	1-136-208-11		0.068MF	10%	250V
	< CA	PACITOR >				C843	1-124-907-11	ELECT	10MF	20%	50V
C601	1-130-202-00	M.ITT	0.022MF	10%	400V	C846	1-123-024-21	ELECT	33MF		160V
C602	1-162-116-00		680PF	10%	2KV	C851	1-137-364-11		0.001MF	5%	50V
C603	1-164-503-61	CERAMIC	0.0022MF	20%	400V	C854	1-161-754-00		0.001MF	106	2KV
C605 C608	1-124-910-11		47MF	20% 20%	50V 50V	C863 C869	1-106-383-00 1-130-777-00		0.047MF 0.1MF	10₅ 5%	100V 63V
C000	1-124-903-11	ББЕСТ	1MF	40%	307	C003	1-130-111-00	C TIM	A. THE	Ja	031
C611	1-102-002-00		680PF	10%	500V	C875	1-102-038-00		0.001MF	0.5	500V
C612 C613	1-130-481-00		0.0068MF	5% 1.0%	50V	C877	1-124-902-00	ELECT CERAMIC CHIP	0.47MF	20չ 10չ	50V 50V
C614	1-129-722-00 1-102-030-00		0.047MF 330PF	10% 10%	630V 500V	C878 C879	1-164-232-11		0.01MF 470PF	105 105	500V
	- 102 030 O	Julianic				1		-		-	-





REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C882 C1501 C1502 C1503 C1504 C1505	1-124-903-11	CERAMIC CHIP 0.001MF ELECT 1MF CERAMIC CHIP 0.001MF ELECT 470MF	10% 5% 20% 5% 20% 20%	100V 50V 50V 50V 25V 50V	D826 D828 D1501 D1503 D1504	8-719-901-33 8-719-914-43 8-719-908-03	DIODE DAN202K DIODE 1SS133 DIODE DAN202K DIODE GP08D DIODE MTZJ-3.6A	
C1506 C1507 C1508 C1509 C1511	1-136-202-11 1-137-423-11 1-124-480-11 1-124-767-00 1-124-907-11	MYLAR 0.15MF ELECT 470MF ELECT 2.2MF	5% 10% 20% 20% 20%	63V 100V 25V 50V 50V	IC601 IC602 IC603 i IC801 IC803	8-759-908-15 8-749-923-44 8-759-103-93	IC TDA4605-3 IC TL431CLP IC SPH617G-1 IC UPC393C IC MC78L12ACPRP	
C1512 C1514 C1515		ELECT 10MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 10% 10%	25V 25V 25V	IC1501	8-759-506-46 < CO		
	< COM	NECTOR >			L602	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
DY1 CN0004		CONNECTOR PIN (DY) 6P PIN, CONNECTOR (5MM PIT			L603 L604 L605 L606	1-410-396-41	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 18UH	0.45UH
CN0009 CN0504 CN0505 CN0506	1-568-878-51 1-564-511-11 *1-568-880-51 *1-568-880-51	PIN, CONNECTOR (5MM PIT PIN, CONNECTOR 3P PLUG, CONNECTOR 5P PIN, CONNECTOR 5P PIN, CONNECTOR 3P PIN, CONNECTOR 3P			L610 L622 L623 L802		FERRITE BEAD INDUCTOR INDUCTOR 47UH INDUCTOR 47UH	1.1UH
CN0519 CN0521 CN0523 CN0524 CN0525	1-573-296-11 *1-568-878-51	PIN, CONNECTOR 3P PIN, CONNECTOR (5MM PIT- CONNECTOR, BOARD TO BOA PIN, CONNECTOR 3P PIN, CONNECTOR (PC BOAR	RD 10P		L803 L804 L807 L808	1-420-872-00	COIL, AIR CORE FERRITE BEAD INDUCTOR INDUCTOR 180UH	0.45UH
CN0526 CN0529 CN0544 CN5521	*1-568-881-51 1-508-784-00 1-573-296-11	PIN, CONNECTOR 6P PIN, CONNECTOR (5MM PIT CONNECTOR, BOARD TO BOAR	CH) 1P		L809 L810 L811	1-459-104-00 1-460-197-21 1-412-519-11	COIL, WITH CORE COIL, FERRITE (PMC) INDUCTOR 3.3UH	
CN3521		PIN, CONNECTOR 3P			L812 L813	1-412-519-11 1-412-519-11	INDUCTOR 3.3UH	
D601 D602 D604 D605 D606	8-719-302-43 8-719-110-39 8-719-975-56	DIODE DAP202K DIODE RGP10GPKG23 DIODE RD15ESB1 DIODE 1SS120A DIODE RGP10GPKG23			L817 L818 L1501 L1502 L1503	1-423-963-11 1-459-104-00 1-412-525-21 1-412-525-21 1-412-525-21	INDUCTOR 10UH	(HLT)
D607		DIODE RGP10GPKG23					LINK >	
D608 D616 D619 D620	8-719-300-33 8-719-110-31	DIODE RU-3AM DIODE RD12ESB2 DIODE DAN202K			PS601 f PS602 f PS603 f PS604 f	1-532-686-91 1-532-686-91 1-532-686-91 1-532-686-91	LINK, IC 2.7A LINK, IC 2.7A LINK, IC 2.7A LINK, IC 2.7A	
D621 D624 D801 D802 D803	8-719-302-43	DIODE R2K-V1 DIODE RGP02-20EL-6394			Q601 Q602	8-729-016-14 4-200-001-01	NSISTOR > TRANSISTOR BUZ91A-E315 HOLDER, IC (IC601) TRANSISTOR 258772-0	5
D809 D811 D812 D813	8-719-110-03 8-719-300-33 8-719-908-03 8-719-908-03	DIODE RD7.5ESB2 DIODE ERB44-06TP1 DIODE GP08D			Q603 Q604 Q605	8-729-900-53 8-729-209-15 8-729-255-12	TRANSISTOR DTC114EK TRANSISTOR 2SD2012 TRANSISTOR 2SC2551-O	
D814 D815 D816 D822	8-719-028-29 8-719-302-43 8-719-979-85	DIODE RU30ALFS1 DIODE EL1Z			Q606 Q611 Q612 Q613 Q802	8-729-119-78 8-729-903-29 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144TK TRANSISTOR 2SA1162-G TRANSISTOR 2SB734-34	
D824 D825	8-719-914-43	DIODE RGP02-17EL-6433			Q807 Q813 Q1501 Q1502	8-729-140-96 8-729-920-74	TRANSISTOR 2SC2688-LK TRANSISTOR 2SD774-34 TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK	



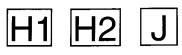
REF.NO.	PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPTIO)N			REMARK
Q1503 Q1504	8-729-216-22 8-729-901-01 < RES	TRANSISTOR 2S TRANSISTOR DI					R821 R822 R823 R825	1-216-481-11 1-216-481-11 1-216-065-00 1-216-342-11	METAL OXIDE METAL GLAZE	1.2K 1.2K 4.7K 0.27	5%	3W 3W 1/10W 1W	F F
R602 R603 R604 R605 R606	1-216-081-00 1-215-901-00 1-260-200-11 1-216-295-00 1-216-035-00	METAL GLAZE METAL OXIDE CARBON METAL GLAZE METAL GLAZE	22K 33K 240K 0 270	5% 5% 5% 5% 5%	1/10W 2W 1/2W 1/10W 1/10W	F	R826 R833 R836 R839 R840	1-216-166-00 1-216-105-00 1-216-242-00 1-216-063-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 220K 68K 3.9K 100K	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W 1/10W	
R607 R608 R609 R610 R611	1-216-210-00 1-215-903-11 1-249-395-11 1-247-881-00 1-215-886-11	METAL GLAZE METAL OXIDE CARBON CARBON METAL OXIDE	3.3K 68K 15 120K 100	5% 5% 5% 5% 5%	1/8W 2W 1/4W 1/4W 2W	F F	R841 R842 R848 R849 R851	1-249-397-11 1-216-454-11 1-215-885-00 1-215-884-11 1-247-743-11	CARBON METAL OXIDE METAL OXIDE METAL OXIDE CARBON	22 390 68 47 220	5% 5% 5% 5% 5%	1/4W 2W 2W 2W 1/2W	F F F
R612 R613 R614 R615 R618	1-247-894-11 1-216-260-11 1-216-488-11 1-216-488-11 1-216-449-11	CARBON METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE	430K 390K 18K 18K 56	5% 5% 5% 5% 5%	1/4W 1/8W 3W 3W 2W	F F F	R852 R853 R854 R855 R858	1-249-389-11 1-249-443-11 1-249-443-11 1-202-826-00 1-249-423-11	CARBON CARBON CARBON SOLID CARBON	4.7 0.47 0.47 4.7K 3.3K	5% 5% 5% 20% 5%	1/4W 1/4W 1/4W 1/2W 1/4W	F
R620 R621 R622 R623 R625	1-216-045-00 1-216-659-11 1-216-041-00 1-216-073-00 1-216-449-11	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL OXIDE	680 2.2K 470 10K 56	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 2W		R864 R868 R871 R872 R873	1-216-686-11 1-249-426-11 1-214-907-00 1-249-393-11 1-249-393-11	METAL CHIP CARBON METAL CARBON CARBON	30K 5.6K 56K 10	0.50% 5% 1% 5% 5%	1/10W 1/4W 1/2W 1/4W 1/4W	P
R626 R627 R629 R630 R631	1-216-635-11 1-249-398-11 1-215-464-00 1-249-421-11 1-216-398-11	METAL CHIP CARBON METAL CARBON METAL OXIDE	220 27 62K 2.2K 5.6	0.50% 5% 1% 5% 5%	1/10W 1/4W 1/4W 1/4W 3W		R876 R877 R889 R893 R894	1-249-421-11 1-215-907-11 1-216-089-91 1-215-878-00 1-216-264-00	CARBON METAL OXIDE METAL GLAZE METAL OXIDE METAL GLAZE	2.2K 22 47K 33K 560K	5% 5% 5% 5% 5%	1/4W 3W 1/10W 1W 1/8W	F
R633 R634 R635 R636 R637	1-249-415-11 1-215-477-00 1-216-073-00 1-215-925-11 1-216-113-00	CARBON METAL METAL GLAZE METAL OXIDE METAL GLAZE	680 220K 10K 22K 470K	5% 1% 5% 5% 5%	1/4W 1/4W 1/10W 3W 1/10W	F	R895 R897 R898 R899 R1501	1-216-095-00 1-216-089-91 1-216-262-00 1-249-377-11 1-216-676-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL CHIP	82K 47K 470K 0.47 11K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/8W 1/4W 1/10W	F
R638 R639 R640 R642 R643	1-216-073-00 1-216-089-91 1-207-905-00 1-216-374-00 1-249-417-11	METAL GLAZE METAL GLAZE WIREWOUND METAL OXIDE CARBON	10K 47K 0.27 2.7 1K	5% 5% 10% 5% 5%	1/10W 1/10W 2W 2W 1/4W		R1502 R1503 R1504 R1505 R1506	1-216-666-11 1-216-065-00 1-216-081-00 1-216-081-00 1-216-053-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.3K 4.7K 22K 22K 1.5K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R645 R646 R647 R648 R649	1-215-464-00 1-216-097-00 1-216-059-00 1-249-424-11 1-216-270-00	METAL GLAZE METAL GLAZE CARBON	62K 100K 2.7K 3.9K 1M	5%	1/4W 1/10W 1/10W 1/4W 1/8W		R1508 R1509 R1510 R1511 R1512	1-216-683-11 1-216-689-11 1-249-382-11 1-215-888-00 1-216-370-11	METAL CHIP METAL CHIP CARBON METAL OXIDE METAL OXIDE	22K 39K 1.2 220		1/10W 1/10W 1/4W 2W 2W	
R650 R651 R652 R653 R654	1-216-113-00 1-216-069-00 1-216-109-00 1-216-065-00 1-215-904-11	METAL GLAZE METAL GLAZE METAL GLAZE	470K 6.8K 330K 4.7K 100K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 2W		R1514 R1550 R1551 R1552 FS046	1-216-049-00 1-216-113-00 1-216-065-00 1-216-113-00 1-249-399-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	1K 470K 4.7K 470K 33	5%	1/ 1 0W 1/ 1 0W 1/ 1 0W 1/ 1 0W 1/ 4 W	
R655 R656 R657 R658 R801	1-216-065-00 1-216-033-00 1-247-811-31 1-249-403-11 1-216-069-00	METAL GLAZE CARBON CARBON	4.7K 220 150 68 6.8K	5% 5% 5%	1/10W 1/10W 1/4W 1/4W 1/10W		RV601	1-241-628-11	IABLE RESISTOR RES, ADJ, CARI NSFORMER >		2K		
R804 R807 R811 R812 R818	1-217-778-11 1-216-037-00 1-216-033-00 1-216-061-00 1-216-685-11	METAL GLAZE METAL GLAZE METAL GLAZE	1K 330 220 3.3K 27K	5% 5% 5% 5% 0.50%	1W 1/10W 1/10W 1/10W 1/10W		T801 1 T803 T895		TRANSFORMER AS HDT TRANSFORMER, I	SSY, FI PERRITI	YBACK (DFT)	(NN)	
R819	1-247-755-11	CARBON	1.8K	5%	1/2W	F							



REF.NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTI	ON		REMARK
		D4 BOARD, COMPLETE ***********************************			R1842 R1843 R1844 R1847	1-260-111-11 1-216-057-00 1-216-057-00 1-249-399-11	METAL GLAZE METAL GLAZE	10K 5% 2.2K 5% 2.2K 5% 33 5%	1/2V 1/10 1/10 1/4V)W)W
C1841 C1844 C1845 C1851 C1854	1-137-371-11 1-106-383-00 1-130-785-11 1-126-103-11 1-124-910-11	MYLAR 0.047MF MYLAR 0.47MF ELECT 470MF	5% 5% 10% 20% 20%	50V 200V 100V 16V 50V	R1848 R1849 R1852 R1853 R1854	1-260-111-11 1-216-089-91 1-216-691-11	METAL GLAZE	1.8K 5% 10K 5% 47K 5% 47K 0.5 10K 5%	1W 1/2V 1/10 50% 1/10 1/10	V OW OW
C1855 C1858 C1859 C1860 C1861	1-163-275-11 1-163-275-11 1-163-989-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.033MF	10% 5% 5% 10% 10%	50V 50V 50V 25V 25V	R1860 R1861 R1862 R1863 R1873	1-216-073-00 1-216-055-00 1-218-758-11	METAL GLAZE METAL GLAZE METAL CHIP METAL OXIDE	68 5% 10K 5% 1.8K 5% 180K 0.5 82 5%)W)W
C1862 C1863 C1867 C1892		FILM 0.16MF	20% 5% 20% 10%	50V 200V 16V 25V	R1875 R1877 R1878 R1881 R1882	1-216-683-11 1-216-097-00 1-260-091-11 1-260-091-11 1-215-869-11	METAL GLAZE CARBON	22K 0.5 100K 5% 220 5% 220 5% 1K 5%	0% 1/10 1/10 1/2W 1/2W 1W)W I I
CN1823 CN1841 CN1842	*1-573-299-11 *1-568-878-51 1-508-784-00	CONNECTOR, BOARD TO BOA PIN, CONNECTOR 3P PIN, CONNECTOR (5MM PIT			R1893 R1894 R1895 R1898 R1899	1-216-097-00 1-216-037-00	METAL GLAZE METAL GLAZE	82 5% 10K 5% 100K 5% 330 5% 330 5%	3W 1/10 1/10 1/10 1/10	W W
	< DI(< VA	RIABLE RESISTO	OR >		
D1840 D1841 D1856 D1867	8-719-914-43	DIODE EL1Z DIODE DAN202K DIODE DAN202K DIODE ERA85-009TP3			RV1851 RV1853		RES, ADJ, CE RES, ADJ, CA			
D1868	8-719-987-87	DIODE ERA85-009				< TRA	ANSFORMER >			
D1882 D1883		DIODE RD5.6ESB2 DIODE RD5.6ESB2			T1851	1-423-786-11	TRANSFORMER,	FERRITE (V	POT)	
	< IC	>			******	*********	******	******	*****	******
IC1851 IC1852 IC1853	8-759-135-80	IC NJM78L05A IC UPC358C IC SN74LS221N				*A-1644-040-A	VM BOARD, CO ************* PACITOR >			
	< CO	IL >			C1701	1-124-119-00		330MF	20%	16V
L1841 L1843 L1852	1-459-075-00 1-459-104-00	COIL, DYNAMIC CONVERSION COIL, WITH CORE COIL (WITH CORE)	I CHOKE		C1702 C1703 C1704 C1705		CERAMIC CERAMIC CERAMIC		5% 10% 20%	
	< TRA	ANSISTOR >			C1706	1-123-935-00		33MF	20%	160V
Q1840 Q1841 Q1851 Q1854	8-729-195-82 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2958-L TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G			C1707 C1708 C1709 C1710	1-124-907-11 1-101-006-00 1-108-704-11 1-136-207-11	CERAMIC MYLAR	10MF 0.047MF 0.1MF 0.047MF	20% 10% 10%	50V 50V 200V 250V
Q1855 Q1856 Q1857	8-729-920-74 8-729-017-05	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1837 TRANSISTOR 2SA1220A-P			C1711 C1712 C1713 C1714	1-162-318-11 1-124-799-11 1-162-318-11 1-136-207-11	ELECT CERAMIC	0.001MF 2.2MF 0.001MF 0.047MF	10% 20% 10% 10%	500V 160V 500V 250V
Q1858 Q1859	8-729-920-92 8-729-216-22	TRANSISTOR 2SD2096-EF TRANSISTOR 2SA1162-G			C1716	1-124-907-11	ELECT	10MF	20%	50V
Q1860 Q1861		TRANSISTOR 2SC2412K-QR			C1718 C1719	1-124-120-11 1-124-927-11		220MF 4.7MF	20% 20%	16V 50V
ATONT.		TRANSISTOR 2SC4793			< CONNECTOR >					
JR1851	< RES 1-216-295-00	SISTOR > METAL GLAZE 0 5%	1/10	w	CN1819 CN1830	*1-568-882-51 *1-568-878-51	PIN, CONNECTO	OR 7P		
R1841	_				CMIOOU	.T-200-0/0-2T	FIN, CONNECT	OK JP		
VIOAT	1-216-085-00	METAL GLAZE 33K 5%	1/10	W						

VM







						<u> </u>			
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
	< DIO	DE. >			*1-648-314-11	H1 BOARD, COM			
D1701 D1702 D1703	8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133				PACITOR >		100	05**
D1704 D1705		DIODE MTZJ-39C DIODE MTZJ-39C		C083 C087		CERAMIC CHIP CERAMIC CHIP		10% 10%	25V 25V
D1706 D1707		DIODE 1SS133 DIODE 1SS133			< COM	NECTOR >			
	< COI			CN1008	*1-564-516-11	PLUG, CONNECT	OR 13P		
L1702	1-408-418-00	INDUCTOR 56UH			< CO1	IL >			
		ANSISTOR >		L081 L082	1-408-409-00 1-408-409-00		10UH 10UH		
Q1701		TRANSISTOR 2SC2785-HFE			< RES	SISTOR >			
Q1702 Q1703	8-729-017-05	TRANSISTOR 2SA733-K TRANSISTOR 2SA1837 SPRING, TRANSISTOR (Q170	31	JR021	1-216-295-00	METAL GLAZE	0 5%	1/10	Ñ
Q1704	8-729-119-78		<i>5</i>	R081 R082	1-216-073-00 1-216-065-00		10K 5% 4.7K 5%	1/10 1/10	
Q1705		TRANSISTOR 2SC4793 SPRING, TRANSISTOR (Q170	5)	R083 R084	1-216-057-00 1-216-202-00	METAL GLAZE	2.2K 5% 1.5K 5%	1/10 1/8W	N
Q1706 Q1707	8-729-119-78 8-729-140-96	TRANSISTOR 2SC2785-HFE	- ,	R085	1-216-202-00		1.5K 5%	1/8W	
					< SWI	TCH >			
Q1708 Q1709	8-729-901-59 8-729-255-12	TRANSISTOR BF199 TRANSISTOR 2SC2551-0		S081 S082		SWITCH, TACTI			
	< RES	SISTOR >		\$083		SWITCH, TACTI			
R1701	1-247-807-31		1/4W	*****	******	******	*******	*****	******
R1702	1-249-420-11	CARBON 1.8K 5%	1/4W						
R1703 R1704	1-247-807-31 1-249-420-11		1/4W 1/4W		*1-650-759-11	H2 BOARD			
R1705	1-247-736-11		1/2W F						
R1706	1-249-414-11	CARBON 560 5%	1/4W F		< CON	NECTOR >			
R1707	1-249-414-11		1/4W F 1/4W	CN1132	*1-568-882-51	PIN, CONNECTO	R 7P		
R1709	1-249-416-11	CARBON 820 5%	1/4W				·· /=		
R1710 R1711	1-249-385-11		1/4W F		< DIC	DE >			
	1-249-432-11		1/4W	D092		DIODE LD-201V			
R1712 R1713	1-249-435-11 1-249-438-11		1/4W 1/4W	D093 D094		DIODE LD-201VI			
R1714 R1715	1-249-429-11 1-216-476-11	CARBON 10K 5%	1/4W 3W F		< IC				
R1716	1-249-417-11		1/4w F	IC091		IC SBX1610-11			
R1717	1-249-432-11		1/4W	10031	0-741-101-75	IC SBA1010-11			
R1718 R1719	1-249-410-11		1/4W		< RES	ISTOR >			
R1719	1-249-419-11 1-249-441-11		1/4W 1/4W	R091	1-249-413-11	CARBON	470 5%	1/ 4 W	
R1721	1-249-414-11		1/4W		******			•	
R1722	1-249-385-11	CARBON 2.2 5%	1/4W F						
R1723 R1724	1-249-429-11		1/4W		*A-1651-057-A	J BOARD, COMPI	JETE		
R1725	1-249-436-11 1-249-417-11		1/4W 1/4W						
R1726	1-249-411-11		1/4W		< CAP	ACITOR >			
R1727	1-249-402-11		1/4W F	C281	1-124-119-00		30MF	20%	16V 50V
R1729 R1731	1-216-451-11 1-249-420-11		2W F 1/4W	C295 C296		CERAMIC CHIP (10% 10%	50V 50V
R1732	1-249-426-11		1/4W 1/4W	C296	1-101-004-00		0.01MF	70-0	50V
R1734	1-249-419-11		1/4W	C910		CERAMIC CHIP (10%	50V
******	*********				1-163-017-00	CERAMIC CHIP (.0047MF	10%	50V
					1-163-133-00	CERAMIC CHIP 4	70PF	5% 5%	50V 50V



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		RE	MARK
C914 C915	1-163-121-00 1-163-121-00	CERAMIC CHIP 150PF CERAMIC CHIP 150PF	5% 5%	50V 50V	JR924 JR926	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W	
C916 C917	1-163-017-00 1-163-017-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF	10% 10%	50V 50V	JR927 JR928	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W	
C922 C923	1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF	20%	16V 16V	JR935 JR942	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W	
C924	1-124-477-11		20%	16V	JR952	1-216-296-00	METAL GLAZE	0	5% 5%	1/8W 1/8W	
C925 C926	1-124-477-11 1-164-346-11	ELECT 47MF CERAMIC CHIP 1MF	20%	16V 16V	JR954 JR955	1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/8W	
C927	1-124-477-11	ELECT 47MF	20%	16V	JR956	1-216-295-00	METAL GLAZE	0	5%	1/10W	
C928 C929	1-124-477-11 1-124-477-11		20% 20%	16V 16V	JR957	1-216-295-00	METAL GLAZE	0	5%	1/10W	
C930	1-124-477-11		20%	16V	R283 R284	1-216-073-00 1-216-073-00		10K 10K	5% 5%	1/10W 1/10W	
C931 C932		CERAMIC CHIP 1MF CERAMIC CHIP 1MF		16V 16V	R289 R291	1-216-055-00 1-249-413-11	METAL GLAZE CARBON	1.8K 470	5% 5%	1/10W 1/4W	
		INECTOR >			R292	1-249-413-11	CARBON	470	5%	1/4W	
CN1209	1_605_202_11	CONNECTOR, BOARD TO BOA	מת בתם		R911 R921	1-216-022-00	METAL GLAZE	75	5%	1/10W	
CN1210	*1-564-522-11	PLUG, CONNECTOR 7P	מאט טער		R922	1-216-022-00 1-216-222-00	METAL GLAZE	75 10K	5% 5%	1/10W 1/8W	
CN1240	*1-564-519-11	PLUG, CONNECTOR 4P			R923 R924	1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE	390 390	5% 5%	1/10W 1/10W	
	< DIC	DDE >			R925	1-216-089-91		47K	5%	1/10W	
D903 D904		DIODE MTZJ9.1 DIODE MTZJ9.1			R926 R927	1-216-039-00 1-216-039-00	METAL GLAZE	390	5%	1/10W	
D907	8-719-921-69	DIODE MTZJ9.1			R928	1-216-089-91	METAL GLAZE	390 47K	5% 5%	1/10W 1/10W	
D908 D909		DIODE MTZJ9.1 DIODE MTZJ9.1			R929	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
D910	8-719-921-69	DIODE MTZJ9.1			R930 R931	1-216-113-00 1-216-212-00	METAL GLAZE METAL GLAZE	470K 3.9K	5% 5%	1/10W 1/8W	
D911 D912	8-719-921-69				R932 R933	1-216-113-00 1-216-073-00		470K	5%	1/10W	
D913	8-719-921-69	DIODE MTZJ9.1			R934	1-216-063-00	METAL GLAZE	10K 3.9K	5% 5%	1/10W 1/10W	
D914	8-719-921-69	DIODE MTZJ9.1			R935	1-216-022-00		75	5%	1/10W	
D915 D916	8-719-921-69 8-719-921-69	DIODE MTZJ9.1 DIODE MTZJ9.1			R936 R937	1-216-022-00 1-216-113-00		75 470k	5% 5%	1/10W 1/10W	
D917 D924	8-719-921-69 8-719-921-69	DIODE MTZJ9.1 DIODE MTZJ9.1			R938 R939	1-216-039-00 1-216-188-00	METAL GLAZE	390	5% 5%	1/10W	
D925	8-719-921-69	DIODE MTZJ9.1					METAL GLAZE	390		1/8W	
D926	8-719-921-69				R940 R941	1-216-063-00 1-216-113-00		3.9K 470K		1/ 10W 1/ 10W	
D927 D928		DIODE MTZJ9.1 DIODE MTZJ9.1			R942 R943	1-216-188-00 1-216-089-91		390 47K	5% 5%	1/ 8W 1/ 10W	
D999		DIODE RD15ESB1			R944	1-216-188-00		390	5%	1/ 8W	
	< JAC	CK >			R945 R959	1-216-089-91 1-216-674-11		47K	5% 0.50%	1/ 10W	
J291		TERMINAL BOARD (2P)			R960	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W	
J903 J905	1-561-534-41 1-695-293-11	SOCKET, PIN 21P SOCKET 21P			R968 R969	1-216-055-00 1-216-055-00		1.8K 1.8K		1/ 10W 1/ 10W	
	< TRA	ANSISTOR >			R970	1-216-055-00		1.8K		1/ 10W	
Q281 Q282		TRANSISTOR 2SC2412K-QR			R977	1-216-055-00		1.8K		1/ 10W	
Ž404		TRANSISTOR 2SC2412K-QR				******			*****		* A B A B
JR901		SISTOR >	d) d e-	,							
JR906	1-216-295-00 1-216-295-00	METAL GLAZE 0 5%	1/10V 1/10V	Ĭ							
JR915 JR917	1-216-295-00 1-216-296-00		1/10V 1/8W								
JR918	1-216-295-00		1/107								
JR919	1-216-296-00		1/8W								
JR920 JR921	1-216-295-00 1-216-295-00		1/10V 1/10V								
			· · · - • ·								

shading and marked 🗥 are critical for safety. Replace only with the part number specified.

REMARK REF.NO. PART NO. DESCRIPTION REMARK PART NO. DESCRIPTION REF.NO.

MISCELLANEOUS

f 1-406-807-21 COIL, DEGAUSSING f 8-451-422-11 DEFLECTION YORE (Y29GXA) 1-452-509-11 NECK ASSY, PICTURE TUBE(NA-308) 1-544-728-11 SPEAKER t 1-690-270-21 CORD, POWER(WITH CONNECTOR) (KV-X2971B, X2973E) 1-590-762-11 CORD, POWER(WITH PLUG) (KV-X2972U) 1 1-751-680-11 CORD, POWER(WITH NOISE FILTER)

V901 A 8-733-841-05 PICTURE TUBE (M68KZT10X)

ACCESSORIES AND PACKING MATERIALS

4-202-606-11 MANUAL, INSTRUCTION (KV-X2971D) (GERMAN/ENGLISH//DUTCH/GREEK) 4-202-606-41 MANUAL, INSTRUCTION (KV-X2971A) (ITALIAN) 4-202-606-51 MANUAL, INSTRUCTION (KV-X2971B)

(GERMAN/FRENCH/ITALIAN)

(KV-X2971A, X2971D, X2971K)

4-202-606-61 MANUAL, INSTRUCTION (KV-X2972U) (ENGLISH) 4-202-606-71 MANUAL, INSTRUCTION (KV-X2973E) (SPANISH)

4-202-606-81 MANUAL, INSTRUCTION (KV-X2973E)

(FRENCH/DUTCH/SWEDISH/DANISH/GERMAN FINNISH/NORWEGIAN/PORTUGUESE)

4-202-606-91 MANUAL, INSTRUCTION (KV-X2971K) (GERMAN/ENGLISH/RUSSIAN/HUNGARIAN/POLISH)

*4-039-906-01 BAG, PROTECTION

*4-042-127-01 CUSHION (UPPER) (ASSY)

*4-042-126-01 CUSHION (LOWER) (ASSY)

*4-042-128-01 INDIVIDUAL CARTON

REMOTE COMMANDER

1-467-272-11 COMMANDER, STANDARD TYPE(RM-831) 9-903-466-01 POCKET COVER (FOR RM-831)
